

```

# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
- Editor: Ary Boender      *****      e-mail: ary@luna.nl -
- Nickname on IRC channels #wun #monitor #numbers: Ary-B -
-                                     -
- Download the complete N&O newsletter from the N&O web site -
- at: http://home.luna.nl/~ary/ -
-                                     -
- Online database: Chris Smolinski <csmolinski@erols.com> -
- http://www.spynumbers.com/numbersDB/ -
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

```

-::: N&O # 31 - November 2000 :::-

Hello everyone. This month a rundown of a number of unid stations, a historic view from Simon Mason's book 'Secret Signals' and a lot of news and logs. I'd like to welcome first time contributors, Thomas and Harald from Germany and Alexandr from the Ukraine. Thanks for your input guys, and thanks to all the other regular contributors of course.

-o-o-o-o-o-o-o-o-o-o-

* NUMBERS ON THE WWW *

If you can read Japanese, then try the following websites for Korean numbers stations and other numbers and utility items.

Mr Takushi Ochiai (J020XL) runs a SW website with currently 3 numbers pages <<http://www3.justnet.ne.jp/~dxer/J020XL>>

Another one is maintained by Mr Takashi Kuroda. His RTTY and numbers pages can be found on <<http://home.att.ne.jp/air/dxing/number.htm>> and <<http://home.att.ne.jp/air/dxing/topics.htm>>

-o-o-o-o-o-o-o-o-o-o-

* MORSE STATIONS *

As you can see, Thomas and Igor were very active this month.

::: RUSSIAN AIR DEFENSE [M21]

Thomas copied M21 on various evenings (UTC) on 4505 kHz. Besides the usual BT99 marker, also various messages were aired.

BT99?t2t7?99??????

BT1t4954t164371t

BT99?t212?99??????

BT1t549455611712
BT99?t22t?99??????
BT1t55t541t8962
BT255311t9t8
BT1t55t541t8962
BT99?t222?99??????
BT1t55t541t84822
BT2t55t5t1tt88
BT99?t223?99??????
BT99?t224?99??????
BT1t55t541t84822
BT99?t225?99??????

<<<<<>>>>>

::: UNID JAPANESE NET

Igor reports an unid Japanese net on 3879 kHz, probably military.
Logged on 16 Nov. at 1137 UTC.

jjj60 de jjf20 znb nn ua znb qx k
de jjj60 znb gg k
de jjf20 qsa4 qru qrx 0900 k
de jjj60 qru qrx 0900 ar

jjf20 de jjh40 ua qsa k

jjh40 de jjf20 ua znb tb k
de jjh40 znb uu ua znb kx k
de jjf20 znb ss qsa 4 qru qrx 0900 ua qsa k
de jjh40 qsa 4 qru qrx 0900 ar

jjf20 de jjk70 qsa 4 ua znb ai k

jjk70 de jjf20 znb gg ua znb ym k

<<<<<>>>>>

::: ISRAELI NAVY TEL AVIV [M22]

Another one from Thomas: 4XZ on 6739//4331 and at the same time on
8437 kHz with another broadcast. Here is a sample of the 6739 kHz
transmission at 2200 UTC:

vvv de 4xz == ar
nw qtc 1 nr 213 == qsl nr 15 == e2h nr 313 zu gr 76 == qn8y nr 413
aa gr qn8y nr 513 aa gr 46 == lj8i nr 613 aa gr 42 == lj9i nr 713
zu gr 32 == eg2h qsl nr 15 == eg2h nr 313 zu gr 76 == qn8y nr 413

aa gr 36 == qn8y nr 513 aaa gr 46 == lj9i nr 613 aa gr 42 == lj9i
nr 713 aa gr 32 == eg2h qsl nr 15 == eg2h nr 213 zu gr 76 == qn8h
nr 413 aa gr 36 == qn8h nr 513 aa gr 46 == lj8i nr 413 aa gr 36 ==
qn8y nr 513 aa gr 46 == lj8i nr 613 aa gr 42 == eg2h nr 313 gr 76
== qn8y nr 413 aa g
vvv de 4xz 4xz ==

<<<<<>>>>>

::: CHINESE STATIONS

10704 kHz, 0340 UTC, 14-11-2000, 4FGs, cut numbers

= = t = =
3n7n 63u6 4at3 an36 t674 n353 d365 5a5d d7n5 5u7u 676d d46a 36t7...
r r r
hr cgu qsa no --.---. phull hr hw?
k k k de de r r r
hr cgu qsa no --.---. phull hr hw?
hr cgu qsa no --.---. phull hr hw?
hr cgu qsa no --.---. phull hr hw?
rk rk rk

Like Igor, I would like to know who this is and what it means. Except
for 'hr', meaning 'here', I have no idea what it means. Anyone???

<<<<<>>>>>

6669 kHz, 4FGs, cut numbers. Callsign: TA4R
vvvvv... 36d5 nn5d 36d5

<<<<<>>>>>

:::: MORE UNIDS. WHO CAN IDENTIFY THESE STATIONS???

10698 kHz, 0453 UTC, 11 Nov, 5FGs, cut numbers, logged by Igor.

05 05 05 05 :
= = = = u6574 ttatu d0o74 aaa4u 366ud 5ew
= = = = u6574 ttatu d0o7n aaa4u 366ud 5ew
= = = = u6574 ttatu d0o7n aaa4u 366ud 5ew
= = = = u6574 ttatu d0o7n aaa4u 366ud 5ew
k pse lr tunng hr qsa ?

05 05 05 05 05...
r k r k r k r k
r k r k r k r k...
pse lr tunng hr qsa ?

4476 4576 45405 05 05 ...
= = = = = u6574 ttatu d0o7n aaa4u 366ud

05 05 05 05 05
rk rk rk rk ...
pse lr tunng hr qsa?

05 05 a53n d46d a43a 554 k k
= = = = neet = = = 457a 53nd46d
444 r r r k r n r = = = = = a53n d46d 455 =
pse lr tunng hr qsa ? 05 05 05...

= = 3d3cta65n... 4
hr hr eg eg eg
hr hr egh on ne ne pe
hr hr ngtphonenqisngti 5399oo1nqwk w pse a4a ucg..... qsa 1
pseu oobs obs ga

05 05 05 05....
de de k de de osw
nil nil va va

<<<<<>>>>

4025 kHz, 1130 UTC, 8 Nov., Callsign: 921

8t22 de 921 zvp zvp
nw t44581231729 ar
? ? 41827t43?3418181 ar
xxx xxx qst ... qru

<<<<<>>>>

::: NORTH KOREAN NUMBERS

- M53 was heard on 5532 kHz at 1507 UTC on 23 Oct.
... 6t367 71588 95764 72769 35948 44574 ar ar sk sk

also on 6632 kHz at 1433 UTC on 6 Oct. with 'vvv cq 113,1t3'

- M82 is still active, although it seems that the Korean numbers
scene is slowing down a bit.

vvv wlk wlk wlk qsa5 qsa? qtc 1t4 (R5)
qtc nr 1t4 28 27 11t2 2t3t 431 326 =
66486 466t1 73146 89773 95786 2736t 97442 t7621 47tt5 431t3 r

Note the 'r' after each 10 groups

::: RUSSIAN MILITARY STATIONS

Control station JPOW transmitted this message:

<<<<<>>>>>

L7S3

9DVX 9DVX 9DVX de L7S3 L7S3

<<<<<>>>>

M81 is also still alive and kicking. It was on 10953 kHz at 0243 UTC, on 3 Nov. with 4FGs.. Note the callsign!!

2226 3165 8790 1775 7693 0252 = = ar

<<<<<>>>>>

::: M51

Haven't heard this one for a while. Nice to see that it is still there. Logged on 6939 kHz.

nr 73 o 06 01:31:28 2000 bt qmiao xjxwz uhog1...

-0-0-0-0-0-0-0-0-0-0-

* VOICE STATIONS *

::: UNID RUSSIAN??? STATION

The -still- unid Slavic station on 7019 kHz, definitely transmits in Russian. Takashi regularly reported this station and Igor, who heard it recently for the first time, translated the text for us. The station, that has a fixed schedule is on the air since at least 1998.

The characteristics are as follows:

Freq. : 7019 kHz
Mode : AM
Voice : Male
Language: Russian
Schedule: Thursday, 11.30 UTC
Message :

926 926 926 (repeated for 4 minutes)
652 652 27 27 (decryption key and group count)
razdel razdel ('separation'; same as '=' in morse)
59553 59553 63199 63199 09624 09624 04790 04790
61265 61265 36386 36386 85707 85707 16672 16672
56623 56623 86519 86519 73563 73563 32363 32363
36728 36728 75906 75906 64356 64356 05404 05404
81548 81548 71134 71134 98779 98779 89842 89842
31136 31136 85460 85460 13484 13484 45062 45062
83024 83024 80173 80173 96912 96912 (5FGs each group 2x)
razdel razdel
652 652 27 27
000

<<<<<>>>>>

::: CHINESE STATIONS

All transmissions were in AM, read by a YL in Chinese and logged by Igor.

'138' used 7570 kHz for its message to '370'.

Message: 370 this is 138
nr 109 gr 10
1068 6033 8145 7254 5835 5743 5290 7224 6366 2401 bye

'728' was heard on 12877 (0130 UTC), 14860 kHz (0200 UTC),
and 22305 kHz (0830 UTC) with '316 this is 728'. No message.

<<<<<>>>>>

::: V02

Billy S. heard V02 on 5 Nov. at 0600 UTC. After this broadcast a
hand keyed morse message was sent. Unfortunately Billy could not
copy this message. Did anyone else heard it and wrote it down?

<<<<<>>>>>

::: THREE NOTE ODDITY [G04]

Hans-Friedrich, the floor is yours!

02.11.00 2105Z 4.270 kHz
2135Z 4.380 kHz (+110 kHz!!!)

Message : 36364 45567 82476 20320 82020 34400 00758 34411 56057 12118
88424 05727 45652 73164 21703 44562 68818 20420
= 18 groups

Remarks : 2nd frequency 110 kHz higher
Rather small number of groups
No "9".

History : Summer 2005 2035
Winter 2105 2135 <<<

11/99	3910	3810	2nd transmission -100 kHz
12/99	3360	3260	.
01/00	3440	3340	.
02/00	3920	3820	.
03/00	4520	4420	.
04/00	5210	5310	2nd transmission +100 kHz
05/00	4830	4930	.
06/00	5220	5320	.
07/00	5360	5460	.

08/00 5320 5420 .
09/00 4760 4860 .
10/00 4580 4680 .
11/00 4270 4380 2nd transmission +110 kHz

<<<<<>>>>>

::: UNID STATION - INFORMATION WANTED !!!

Alexandr from the Ukraine writes that he heard an unid station at +/- 9910 kHz. Time: 2255-2330 UTC. Date: 29 June 2000. Very loud signal in Kiev.

Characteristics:

- Id : 4-character callsign (e.g. M7D8)
- Voice : Male (English with strong accent -Hindi? Urdu? other?-
- Mode : AM (badly modulated)
- Format : 5LGs; messages separated by 'messages ends' + callsign.
It is unknown if the station uses a callup or header.
- Example: UCIVI ATPWV WCGBD HDFMX ULCYU OLPUV ...
MESSAGE ENDS, THIS IS M7D8

<<<<<>>>>>

::: NORTH KOREAN STATIONS

Our Japanese correspondent Takashi reports a number of North and South Korean stations.

3250 kHz, North Korean female numbers in AM. Started with 'Red Flag Song', followed by Korean female numbers at 1400 UTC. Also noted on 621, 657, 702, 720, 855, 6400 kHz. 621 and 3250 kHz are famous Radio Pyongyang frequencies beamed to Japan. These stations went QRT in August.

4770 kHz, North Korean female numbers in AM. Started with an arranged version of the 'General Kim Ill Sung' melody, the same interval signal as Radio Pyongyang beamed to overseas, then the melody of 'Cantata to Marshal Kim Sun', followed by Korean female numbers. Also noted on 5879 kHz. This station also went QRT in August.

Most active AM numbers from North Korea went QRT except for 3320, and 6250 kHz. The result of Southern and Northern harmony? M40 and M82, both North Korean CW numbers, are still active.

<<<<<>>>>>

::: SOUTH KOREAN STATIONS

6215 kHz, South Korean female numbers in distorted AM. Started with a Korean pop song, followed by Korean female numbers. Ended with 'That is all. Thank you' in Korean.

6215 kHz is still active, and usually starts at H+00 or H+30 at mid-night in East Asia. Similar transmissions are very occasionally heard on 4600, 5450, 5715, and 6715 kHz.

<<<<<>>>>>

::: ISRAELI INTELLIGENCE [E10]

Harald in Germany reported that CIO transmitted a message string instead of its normal routine. He heard the station on 4360 kHz at 1936 UTC on 22 Nov. with the following message: CI042127. Nice catch, Harald and thanks for the sound sample.

Download your copy here: <http://home.luna.nl/~ary/download.htm/cio.zip>

John Maky <jcmaky@ipa.net> updated his E10 schedules document. If you are interested, feel free to ask John for a copy.

<<<<<>>>>>

::: CHERRY RIPE [E03A/E04]

Cherry Ripe apparently changed its schedules. The station was heard on the following frequencies during the past few weeks.

UTC	frequencies
0000	18864 // 21866
0100	19844 // 21866
1100	18864 // ?
1200	18864 // 23461
1300	18864 // 21866
2200	? // 24644
2300	18864 // 21866

-0-0-0-0-0-0-0-0-0-0-

* OTHER MODES *

::: XM

The Backward Music Station was on 6491 kHz.

<<<<>>>>

::: XPH

Untill now there were no November logs in the database. Five of the six scheduled transmissions were reported this month. Note that the station now uses its winter skeds.

0700 UTC	?	2100 UTC	7425 kHz
0720 UTC	13434 kHz	2120 UTC	5810 kHz
0740 UTC	14834 kHz	2140 UTC	4210 kHz

<<<<>>>>

::: PACKET NUMBERS

Igor copied an unid packet network that sends off-line encrypted messages (5FGs). Ideas about their id anyone?

The network uses a number of frequencies: 7647, 8266, 8566, and 10050 kHz.

Callsigns noted so far: 0001, 0003, 0007, 0011, 0020, 0025, 0028, 0030, 0704, 0705, CASA, BUA

- Message samples:

MN11.17 0025----0020 2000.11.17 X:06 F:03

NR11418 CK047

91115 33330 21900 52418 42445 33331 02716 02716 02710 02704
02698 02704 02691 02688 02688 02688 02688 02654 02608 02555
02574 02524 02555 02642 02673 02673 02660 02673 02691 02698
02661 02905 02716 15915 02518 22950 02704 33333 00143 15915
00168 10945 00112 33334 11210 11220 (45001)

NR11419 CK010

91115 44441 31974 41136 10432 44442 30557 40110 10330 (35007)

NR11420 CK009

91115 55551 -0240 -1337 -0010 -0630 01048 C018

NR11421 CK004

91116 99991 11210 (35007)

NR11422 CK010

91115 44441 11767 33721 42445 44442 10176 70125 80768 (35021)

NR11423 CK005

91116 99991 10138 20330 (35023)

NR11424 CK008

91115 44441 26525 46991 44442 20109 40060 (35023)

OK

11418-----11424 ZFS: 7 ZZS: 89

<<<<<>>>>>

::: SLOT MACHINE

John Maky and Hugh Stegman in the USA, Takashi Yamaguchi in Japan, and John Batty in Australia, all report the mysterious 'Slot Machine'.

John Maky describes the signal as ''a continuous pilot tone with 13 tones played over it, spaced in a 4/5/4 group, then repeated. The signal really sounds like a slot machine or computer game. When both freqs are up, it appears to be running in parallel.''

There are probably more stations in parallel on the same frequencies.

The signal appears on 4292, 6419, 6446, 8589, and 8705 kHz. Takashi comments: ''very powerful on all frequencies.''

The transmissions seem to come from the East Asia as they follow the reception patterns of New Star BC on 8300 kHz when heard in the USA, while the signal can be heard all day long in Japan. John Batty confirms this with his log:

''At 0730z (local evening in QLD Australia) the signal was present on all 4 frequencies, strength 3, and when I checked again at 1330z, (2330 local) they were all still there, same strength. Throughout, signal strength and signal fading were the same as mainland Asian signals close by in the band (XSG3, XSD, Guangzhou etc). I had 5-second-cycle S3 to S1 fading on all 4 frequencies. Signals from New Zealand and Nandi Aeradio were both much weaker than the "mystery station". I would guess at an Asian location.''

John adds: ''Look at the way they fade in here ...

0615z nothing was audible on any of the frequencies.

0730z 6417 had nothing. 6445 barely audible. 8588 was S1.

8705 just barely audible.

0800z 6417 just audible, 6445 S1, 8588 S2, 8705 S1.

0815z was local sunset. 6417 just audible, 6445 went to S1+,
8588 S2+, 8705 S1+
0900z 6417 up to S1, 6445 S3-4, 8588 S4-5, 8705 S2-3

Hope someone can put all the clues together. Baffles me, never
heard a signal quite like it.'

Neither did I, John. Needless to say that any info about this puzzle
is most welcome. You can download a MP3 sound sample from the N&O
website. The MP3 was recorded by Takashi.

<<<<<>>>>>

::: US INTELLIGENCE - FRANKFURT (D)

Still active with a daily sked at 1100 and 1600 UTC.

Mode: 108.87 bd / 170 Hz FSK

1100 UTC, 11527.7 // 13989.7 kHz
1600 UTC, 8153.7 // 10160.7 kHz

<<<<<>>>>>

::: xxx7 STATIONS

The unid station that operates on 3007-29007 kHz, is probably a
point-to-point propagation logger. We are very interested to hear
your comments, suggestions and logs. So far we only received reports
from Europe.

A ptp propagation logger usually works with two stations. The first
one sends a short burst and if the secondary station hears this, it
responds by sending the burst back to the control station. The
stations change frequency every ten seconds. The cycle starts on
3007 kHz at hh.07.02, the answer back follows after ca. 0.66 secs,
or hh.07.03. At hh.07.10 they jump to 4007 kHz, where the burst is
sent at hh.07.12 and the answer back at hh.07.13. At hh.07.20 up to
5007 kHz, etc., all the way up to 29007 kHz. The same cycle is
repeated at hh.37.02, starting on 3007 kHz. The system doesn't look
very complicated.

The station was discovered by Klaus, who heard it on 5007 and 15007
kHz. About a week later the station was noted on every xxx7 frequency
from 3-29 MHz. Both Klaus and a dxer from central Europe analysed
the signals. The characteristics are as follows:

- Modulation : F1B

- Speed : 100 Baud
- Shift : 125 Hz
- Bit pattern: The station starts with a short steady signal, then transmits a 7 bits character three times and off air with a short steady signal. The 7 bits character has a 3:4 proportion code, all the same. The second station has the same code, but it has less energy at the receiving point.
- Location : According to the modulation, speed, shift and the code that is used, it might be of Russian or CIS origin.

Freqs	Time	
-----	-----	
3007	hh.07.02 or hh.37.02	Note: the answer back from the receiving station comes 0.66 second after the times as listed here.
4007	hh.07.12 or hh.37.12	
5007	hh.07.22 or hh.37.22	
6007	hh.07.32 or hh.37.32	
7007	hh.07.42 or hh.37.42	
8007	hh.07.52 or hh.37.52	
9007	hh.08.02 or hh.38.02	
10007	hh.08.12 or hh.38.12	
11007	hh.08.22 or hh.38.22	
12007	hh.08.32 or hh.38.32	
13007	hh.08.42 or hh.38.42	
14007	hh.08.52 or hh.38.52	
15007	hh.09.02 or hh.39.02	
16007	hh.09.12 or hh.39.12	
17007	hh.09.22 or hh.39.22	
18007	hh.09.32 or hh.39.32	
19007	hh.09.42 or hh.39.42	
20007	hh.09.52 or hh.39.52	
21007	hh.10.02 or hh.40.02	
22007	hh.10.12 or hh.40.12	
23007	hh.10.22 or hh.40.22	
24007	hh.10.32 or hh.40.32	
25007	hh.10.42 or hh.40.42	
26007	hh.10.52 or hh.40.52	
27007	hh.11.02 or hh.41.02	
28007	hh.11.12 or hh.41.12	
29007	hh.11.22 or hh.41.22	

<<<<>>>>

::: FAPSI INTERCEPTS

The number of FAPSI RTTY logs is very low these days. Diminishing number of transmissions?; a diminishing interest of the monitors?;

or do they use other -unreadable- modes??? I will upload the updated list of freqs, callsigns, and link# shortly.

The location of callsign BFR on link 00030 is the Russian embassy in Damascus. The other end of the link is RGA in Moscow. This once more indicates that the network is a diplo net. We have to guess at the nature of the messages, but because this is traffic between -MFA?- Moscow and Russia's diplomatic and trade establishments in the world, the messages are most probably of a diplomatic nature. However, Russian intelligence (FSB, SRV, GRU) are known to conduct sigint collection from diplomatically immune buildings, like embassies and consulates. It is therefore quite safe to assume that some of the messages are to or from the local spy master or military attaché.

Here is a run down of the intercepts in the past few months.

Freq.	UTC	Link	From To	Remarks
-----	-----	-----	-----	-----
7560	1942			RTTY
10163	2019	00051		RTTY
10518	1540			Mazielka call + Crowd36
10717	1559	10064		Crowd36
10750	2032			RTTY
10768	1719	70004	NOB	RTTY
11114	1624			Mazielka call
12239	1633	70004	NOB	RTTY
13447	1658			RTTY
13857	1648	00063		RTTY
13867	1648	00063		RTTY
14535	1641	00051		RTTY
14575	1515			RTTY
14585	0849			RTTY
14817	1730			Mazielka call, then BDRRK repeated
14817	1723			Mazielka call + Crowd36
14820	1600	60069	EWZ 42	RTTY
14822	1719			Mazielka call + Crowd36
14822	1625	60069	EWZ 42	RTTY
16143	0840			RTTY
16152	1550	60069	EWZ 42	RTTY
16152	1602	60069	EWZ 42	RTTY
16347	1615			Mazielka call + Crowd36
17421	1600			Mazielka call
17457	1600	50035	JUA	RTTY
17463	1600	10163	UDZ 27	RTTY
17476	1646	10047		RTTY
18172	0804			RTTY
18173	1020			RTTY
18193	0955			RTTY

18245	1435	00063		RTTY
18245	1648	00063		RTTY
18304	0937	90051	RJA URS	RTTY
18538	0855			Mazielka call + Crowd36
18725	0846			RTTY
18725	0825	80038	RPO	RTTY
19354	0831			RTTY
19354	0820	80038	RPO	RTTY
19425	1341			CW
19522	1600			Mazielka call + Crowd36
19522	1555			Mazielka call + RTTY
20334	1010			RTTY
20883	1231			RTTY
20991	1400	00099	RSZ	RTTY
22863	0917	00099	RSZ	RTTY
22863	1612	00099	RSZ	RTTY

-0-0-0-0-0-0-0-0-0-0-

★ MEMORY LANE ★

Two historic stations described by Simon Mason in his book 'Secret Signals'; the 4-note and 8-note stations [G08 and G18]

::: FOUR NOTE RISING SCALE [G08/G08A/G08B]

I began with a station I had first heard in 1971. It was a German station using a female voice machine. It is easy to tell if a machine is being used as all the numbers are spoken with an identical delivery. This female German numbers station had a rigid schedule and format. It also used a musical marker or interval signal - a four note tune rising up the scale: "so-la-te-do" played on some sort of electronic organ. This tune was aired for a five minute period before the hour. On the hour the woman would send the headings of each message to follow, for example:

```
34324/05 67545/07 55433/11 34534/15
11244/18 53466/21 32124/26 12334/29
15566/33 12456/38 98676/41 75555/47
```

The stroke symbol (/) was spoken as the word trennung. These headings were sent for exactly five minutes. As you can see, the two figure number after the first trennung symbol is "05", which indicates when message number 34323 is due to start.

At five minutes past the hour there was a pause and the woman said "Achtung" and then the first heading was sent again but this time the "05,, was replaced by the number of five figure groups in the message.

For example, 34324/22 meant that 22 five figure groups were in message 34324.

Example:

"Achtung 34324/22. Achtung 34324/22 11223 24566 55454 46578 25555
33367 57567 45585 34665 66477 58577 54888 01123 63645 58999 10122
46547 09991"

After this, "Achtung" was sent again, followed by the heading for the second message 67545/39, for example. As can be seen, the final message has a suffix "/47, which means that this message starts at 47 minutes past the hour. Presumably the recipient would listen to all of the headings in the first five minutes and then not need to listen again until the time his message was due to begin if, indeed, a message was intended for that recipient on that night. After the last message the word "ende" was sent and the station fell silent until five minutes before the next hour when the sinister-sounding electronic tones were sent again, heralding a new set of headings and messages.

The frequencies and times were
3217 kHz at 1800, 1900, 2000, 2100
3820 kHz at 2000, 2100, 2100, 2200

During the summer months in Britain the station kept to British Summer Time, i.e. UTC plus one hour.

The same messages sent on 3217 were re-broadcast two hours later on 3280 so if the first airing was missed there was still an opportunity to hear it. This was one of the very few numbers stations that changed its schedule when daylight savings was in effect. Most kept to the same UTC time so here was a tiny clue that the messages and the station were genuine. One could imagine that the agents involved would have a set monitoring routine somewhere in West German society and the schedule would be ordered so as to produce the least inconvenience to their routine. The same station also appeared during the day using the same format but with perhaps only half as much traffic as in the evening.

This was the normal daytime schedule:

5820 - 1000, 1100, 1200
6450 - 0800, 0900, 1000
(UTC times in winter, British Summer time in summer)

There was apparently no connection between the traffic on the two frequencies. Only on three occasions did I note any additional broadcasts: once on 3820 the woman was heard with some kind of test transmission at 0500 but the signal kept switching on and off in the middle

of the transmission, making it impossible to copy the full text. On another occasion the station was on 7625 at 2000 and 2100. The last unusual transmission was heard on 7430 at 2100. These were apparently "one-off" broadcasts and were not repeated.

The great changes taking place in East Germany as the 1980's neared an end also changed the output from this station. Gradually the traffic lessened to a point where perhaps only two transmissions per night were heard - sometimes none at all. In the last days of this station the schedule became even more erratic and eventually fell to only once per week. Then, towards the end of April, 1990, the station vanished. It made me wonder if perhaps the whole shadowy world of numbers broadcasts was about to end, along with the careers of all those thousands of former East German agents. It certainly seemed so when another numbers station disappeared.....

::: 8 NOTE [G18]

This station had a very distinctive interval signal (musical marker) and it is difficult to describe the eerie feeling one got when hearing it. People who live near the sea know the sound of bells used to warn ships of foggy conditions. This interval signal sounded like a light-ship bell recorded on tape, except that the tape sped up or slowed down which made the bell sound very distorted. The tune was of eight notes, the first four descending down the scale, the last four rising, as: Fa - Me - Ray - Do - Ray - Me Fa - So." With all of the dynamic "wow" on the tape the whole thing sounded very strange. The female voice machine used was also unique. The woman had a very clipped, abrupt delivery - almost like a sergeant major barking out orders on a parade ground.

The actual messages had a simple format. After the musical marker the woman would shout out the headings for the five figure groups to follow, which was usually for three or four separate addresses. As:

34344/33 45455/22 35577/26

Again, the "/" symbol was said as "trennung".

After repeating these group headings for about two minutes, "Achtung" was sent and the message for the first recipient (34344) followed - in this case 33 five figure groups. After the transmission the gongs would usually start again, after which new texts were sent.

This station used only 3258. It had an early morning schedule of 0400-0600 UTC and a main evening schedule of 1700-2100. It also popped up once on 5415 at 2100 but to my knowledge this was not repeated. I

might add that this station may have had extra transmissions during the middle of the day but reception on these frequencies at my location was usually not possible, making it very difficult to check.

As with the previous station, towards the end of 1989 the schedule became increasingly chaotic, with the amount of traffic diminishing so that near the end the transmissions were aired only weekly. The station finally left the air around May, 1990.

-0-0-0-0-0-0-0-0-0-0-

* INTELLIGENCE NEWS *

::: SHORTWAVE MONITORING FACILITY IN CHECHNYA

The following information appeared on the web site of Russian news agency Agentstvo Voyennykh Novostey on 1st November.

Vladimir Vernigora, the technical director and chief engineer of the Federal State Unitary Enterprise, the "Gradient" All-Russian Scientific Research Institute, informed AVN about the Russian monitoring facility in Chechnya. He stated that this facility was used successfully in Groznyy in the Argun gorge, in Novolaksk and other regions of Chechnya. The station can determine in real time the frequency, azimuth and location angle of a radio transmission source. The facility consists of three SOP-K (shortwave) automated stations for detecting and taking bearings on communication system signals and a TSU-K central station for control and determination of the location of radio transmission sources. Each station has its autonomous power supply and is housed in two cargo vans on KamAZ vehicles. The complex operates in the 1.5-30 MHz frequency range, with 360 degree bearing coverage. The facility's range is up to 3,000 km.

::: BELGIAN SPY

The Belgian embassy in Tehran says it has been informed about a Belgian national who was arrested for spying in Iran.

::: HIGH POWER TRANSMISSIONS

In the 70's, somewhere in the UKRAINE, experiments were performed using three 1000 Kw transmitters in parallel. The antenna consisted of 13 vertical towers in the shape of a parabola (as viewed from a airplane), various folded dipoles are strung between all these towers, it also had a very narrow bandwidth (ca 3 MHz), and a very narrow beamwidth (aprox 5-10 degrees). The result of this was the gain they

obtained from this antenna was a staggering 38 dB !. The reference signal they used it against was a 1000 Kw transmitter with a 20 dB curtain antenna. The test signal was directed to the Washington / New York area.

What happened was as follows. It started at 1000 Kw, and they increased tx power and monitored rx signal strength in Washington. As the test tx power approached 2000 Kw they found that the received signal strength started to decrease. At 3000 Kw the received signal was almost gone, but why ? Radio Iosonde sounders and satellites were then dispatched to analyze the signal. What they found was surprising. At 3000 Kw and 38 dB of antenna gain the tx signal was of such power that it was heating up a spot in the ionosphere but instead of creating a solid area of reflection they discovered they were actually burning a hole in the ionosphere and the signal was being shot off into space. They also noticed that in the area of the ionospheric hole had an effect on approaching weather fronts. The weather fronts were being deflected around the ionospheric heated area, inadvertent weather modification. So they reduced the power, received signal strength improved, but not much over the reference signal. They experienced lots of fading especially when the ionosphere was unstable, that the solar winds would push & pull at this heated up areas of the ionosphere and moved it around. They did however notice that as the ionospheric hole decreased in size, they were also able to transmit a 2nd signal beamed to the same spot at much higher than the MUF and HPF, however the received signal was very unstable, because of the lack of symmetry and alignment in due the number of hops. This method has been used before, but just for one hop. The parabolic antenna was modified to a wider beamwidth (aprox 30 degrees) and the frequency range was expanded to 5.5-22.0 MHz. The result of this was a drop in gain to 29 dB, which is still fantastic. The high power tx program was cancelled, and soon after many of the engineers were laid off, but aprox 20-30 were provided safe passage out of the Ukrainian SSR and ended up in Alaska working on the US HAARP project.

(Rick Slobodian-CAN via Olle Alm-SWE via Bernd Trutenau-LTU via Andreas, 21 November 2000)

-0-0-0-0-0-0-0-0-0-0-

* LOGS SECTION *

3090.0	E10	CI02 USB 08-11-2000 Wed 2145 (GG)
3090.0	E10	CI02 USB 26-11-2000 Sun 2345 (GG)
3150.0	E10	PCD 15 VVLZV USB 08-11-2000 Wed 2100 (GG)
3150.0	E10	PCD 21 BRRN? USB 17-11-2000 Fri 2100 (GG)
3150.0	E10	in progress USB 20-11-2000 Mon 2104 (GG)
3150.0	E10	in progress USB 26-11-2000 Sun 2314 (GG)

3270.0 E10 SYN2 USB 05-11-2000 Sun 2245 (GG)
3270.0 E10 SYN2 USB 08-11-2000 Wed 2145 (GG)
3270.0 E10 SYN2 USB 09-11-2000 Thu 2245 (GG)
3270.0 E10 SYN2 USB 14-11-2000 Tue 2245 (GG)
3270.0 E10 SYN2 USB 18-11-2000 Sat 2145 (GG)
3270.0 E10 SYN2 USB 26-11-2000 Sun 1645 (GG)
3270.0 E10 SYN2 USB 26-11-2000 Sun 2345 (GG)
3292.0 V02a in progress AM 14-11-2000 Tue 0200 (JM4)
3292.0 V02a In prog, _____ 34612 AM 14-11-2000 Tue 0206 (GH)
3389.0 V02a Atencion 48581 02652 34612 AM 14-11-2000 Tue 0100 (GH)
3415.0 E10 ART 91 FZGIZ USB 08-11-2000 Wed 2130 (GG)
3415.0 E10 ART2 USB 09-11-2000 Thu 2230 (GG)
3415.0 E10 ART2 USB 14-11-2000 Tue 2230 (GG)
3415.0 E10 ART USB 18-11-2000 Sat 2130 (GG)
3415.0 E10 ART2 USB 18-11-2000 Sat 2230 (GG)
3415.0 E10 ART 8 NKEAN USB 19-11-2000 Sun 0430 (GG)
3415.0 E10 in progress (86 CPWRA) USB 25-11-2000 Sat 2043 (GG)
3415.0 E10 ART 2 msgs: 53 JHSEK/11 SDCUN USB 26-11-2000 Sun 1630 (GG)
3415.0 E10 in progress USB 26-11-2000 Sun 2341 (GG)
3417 E10 Israeli Intel. In progress AM 11-11-2000 Sat 1942 (ANA)
3417 E10 Israeli Intel. In progress AM 11-11-2000 Sat 2040 (ANA)
3417.0 E10 ART2 USB 01-11-2000 Wed 2200 (GG)
3417.0 E10 ART2 USB 08-11-2000 Wed 2200 (GG)
3417.0 E10 ART 96 TAYQC USB 09-11-2000 Thu 2200 (GG)
3417.0 E10 ART 91 WQGFM USB 14-11-2000 Tue 2200 (GG)
3417.0 E10 ART USB 18-11-2000 Sat 2200 (GG)
3444 M82 N.Korean station. vvv wlk wlk wlk qsa5 qsa? qtc 1t4
(rpzd 5 min) qtc nr 1t4 28 27 11t2 2t3t 431 326 =
66486 466t1 73146 89773 95786 2736t 97442 t7621
47t5 431t3 r CW 02-11-2000 Thu 1133 (IB)
3640.0 E10 MIW2 USB 08-11-2000 Wed 2115 (GG)
3640.0 E10 MIW2 USB 08-11-2000 Wed 2215 (GG)
3640.0 E10 MIW2 USB 09-11-2000 Thu 2215 (GG)
3840.0 E10 YHF USB 01-11-2000 Wed 2200 (GG)
3840.0 E10 YHF2 USB 08-11-2000 Wed 2100 (GG)
3840.0 E10 YHF USB 08-11-2000 Wed 2200 (GG)
3840.0 E10 YHF2 USB 14-11-2000 Tue 2200 (GG)
3840.0 E10 YHF2 USB 17-11-2000 Fri 2100 (GG)
3840.0 E10 YHF2 USB 18-11-2000 Sat 1630 (GG)
3840.0 E10 in progress weak USB 19-11-2000 Sun 0415 (GG)
3926.5 M08a _____ IADND RTIDD (_____ 71323 60733) CW 09-11-2000 Thu 0512 (GH)
3926.5 M08a DUNMN UMRMA DGWGN (34292 49691 38582) CW 14-11-2000 Tue 0400 (GH)
4015.0 E10 SYN2 USB 05-11-2000 Sun 2245 (GG)
4015.0 E10 SYN2 USB 08-11-2000 Wed 2145 (GG)
4015.0 E10 SYN2 USB 09-11-2000 Thu 2245 (GG)

4015.0 E10 SYN2 USB 14-11-2000 Tue 2245 (GG)
 4015.0 E10 SYN2 USB 18-11-2000 Sat 2145 (GG)
 4015.0 E10 SYN2 USB 25-11-2000 Sat 2045 (GG)
 4015.0 E10 SYN2 USB 26-11-2000 Sun 1645 (GG)
 4015.0 E10 SYN2 USB 26-11-2000 Sun 2345 (GG)
 4016.5 M08a DRIRN IRIRN WDTGA (36762 76762 53081) CW 11-11-2000 Sat
 0300 (GH)
 4016.5 M08a? Nothing by :04 CW 11-11-2000 Sat 0300 (GH)
 4027.5 M08a DUNMN UMRMA DGWGN (34292 49691 38582) CW 14-11-2000 Tue
 0300 (GH)
 4028.0 V02a Spanish Female - 5 number groupings (in Spanish) USB
 04-11-2000 Sat 0325 (MS2)
 4028.0 V02a in progress AM 10-11-2000 Fri 0100 (JM4)
 4028.0 V02a AM 10-11-2000 Fri 0503 (WK)
 4028.0 V02a In prog, ----- 7(9?)82(6|3) AM 11-11-2000 Sat
 0221 (GH)
 4028.0 V02a in progress AM 17-11-2000 Fri 0100 (JM4)
 4165.0 E10 KPA2 USB 08-11-2000 Wed 2115 (GG)
 4165.0 E10 KPA2 USB 08-11-2000 Wed 2215 (GG)
 4165.0 E10 KPA2 USB 09-11-2000 Thu 2215 (GG)
 4165.0 E10 12x5 letter grps for id KPA AM 14-11-2000 Tue 1920
 4165.0 E10 KPA2 USB 14-11-2000 Tue 2215 (GG)
 4165.0 E10 KPA2 USB 17-11-2000 Fri 2115 (GG)
 4165.0 E10 MIW2 USB 18-11-2000 Sat 1615 (GG)
 4165.0 E10 KPA2 USB 18-11-2000 Sat 2215 (GG)
 4165.0 E10 KPA2 USB 19-11-2000 Sun 0415 (GG)
 4165.0 E10 KPA2 USB 26-11-2000 Sun 2315 (GG)
 4174.0 V02a Atencion 56262 62041 70062 AM 13-11-2000 Mon 0300 (GH)
 4180 M03 287/tt 287/tt 287/tt for 5 minutes, off at 1635 with
 '== t t t CW 13-11-2000 Mon 1630 (TR)
 4270 E10 Israeli Intel. In progress AM 12-11-2000 Sun 1912 (ANA)
 4270.0 E10 PCD USB 01-11-2000 Wed 2200 (GG)
 4270.0 E10 PCD 33 TAWCC USB 05-11-2000 Sun 2300 (GG)
 4270.0 E10 PCD 15 VVLZV USB 08-11-2000 Wed 2100 (GG)
 4270.0 E10 PCD2 USB 08-11-2000 Wed 2130 (GG)
 4270.0 E10 PCD 70 BXZQN USB 08-11-2000 Wed 2200 (GG)
 4270.0 E10 PCD 70 BXZQN USB 09-11-2000 Thu 2200 (GG)
 4270.0 E10 PCD USB 18-11-2000 Sat 2200 (GG)
 4270.0 E10 PCD 34 NTWZE USB 19-11-2000 Sun 0430 (GG)
 4270.0 E10 in progress USB 20-11-2000 Mon 2104 (GG)
 4270.0 E10 PCD 28 AOMPJ USB 25-11-2000 Sat 2000 (GG)
 4270.0 E10 PCD 15 RYYHJ USB 25-11-2000 Sat 2100 (GG)
 4270.0 E10 in progress USB 26-11-2000 Sun 2314 (GG)
 4272 E10 Israeli Intel. In progress AM 11-11-2000 Sat 2006 (ANA)
 4360 E10 Israeli Intel. CI042127 AM 22-11-2000 Wed 1936 (HP)
 4360.0 E10 CI02 USB 05-11-2000 Sun 2245 (GG)
 4360.0 E10 //5170 CI02 USB 08-11-2000 Wed 0145 (JM4)
 4360.0 E10 CI02 USB 08-11-2000 Wed 2145 (GG)

4360.0 E10 CI02 USB 09-11-2000 Thu 2245 (GG)
 4360.0 E10 //5170 CI02 USB 10-11-2000 Fri 0045 (JM4)
 4360.0 E10 CI02 USB 14-11-2000 Tue 2245 (GG)
 4360.0 E10 //5170 CI02 USB 17-11-2000 Fri 0145 (JM4)
 4360.0 E10 CI02 USB 18-11-2000 Sat 1745 (GG)
 4360.0 E10 CI02 USB 18-11-2000 Sat 2145 (GG)
 4360.0 E10 CI02 USB 25-11-2000 Sat 2045 (GG)
 4360.0 E10 CI02 USB 26-11-2000 Sun 1645 (GG)
 4360.0 E10 //5170 CI02 USB 26-11-2000 Sun 2345 (JM4)
 4360.0 E10 CI02 USB 26-11-2000 Sun 2345 (GG)
 4460 E10 Israeli Intel. In progress AM 11-11-2000 Sat 2037 (ANA)
 4461.0 E10 FTJ 51 ZIUIK USB 01-11-2000 Wed 2200 (GG)
 4461.0 E10 FTJ 14 CTJAK USB 05-11-2000 Sun 2300 (GG)
 4461.0 E10 FTJ 9 GOJRA USB 08-11-2000 Wed 0300 (GG)
 4461.0 E10 FTJ 2 msgs: 69 JFHUL/110 VSBSL USB 08-11-2000 Wed 2100 (GG)
 4461.0 E10 FTJ 19 AQJFE USB 08-11-2000 Wed 2130 (GG)
 4461.0 E10 FTJ USB 08-11-2000 Wed 2200 (GG)
 4461.0 E10 FTJ 51 ZIUIK USB 09-11-2000 Thu 2200 (GG)
 4461.0 E10 FTJ 2 msgs: 44 GYJNW/48 GGBPU USB 17-11-2000 Fri 2100 (GG)
 4461.0 E10 FTJ USB 18-11-2000 Sat 2130 (GG)
 4461.0 E10 FTJ 26 FEKBJ USB 18-11-2000 Sat 2200 (GG)
 4461.0 E10 in progress USB 20-11-2000 Mon 2104 (GG)
 4461.0 E10 FTJ 68 QJGGT USB 25-11-2000 Sat 2000 (GG)
 4461.0 E10 in progress USB 25-11-2000 Sat 2043 (GG)
 4461.0 E10 FTJ 48 GGBPU USB 25-11-2000 Sat 2100 (GG)
 4461.0 E10 very weak (might be FTJ2) USB 26-11-2000 Sun 1630 (GG)
 4461.0 E10 in progress USB 26-11-2000 Sun 2341 (GG)
 4462 E10 Israeli Intel. In progress AM 09-11-2000 Thu 1920 (ANA)
 4462.0 E10 FTJ 46 QXZCT USB 08-11-2000 Wed 0330 (GG)
 4463.0 E10 FTJ 37 KPYFG USB 19-11-2000 Sun 0430 (GG)
 4464 E10 Israeli Intel. In progress AM 08-11-2000 Wed 1905 (ANA)
 4464 E10 Israeli Intel. In progress AM 11-11-2000 Sat 2005 (ANA)
 4464 E10 Israeli Intel. In progress AM 12-11-2000 Sun 1911 (ANA)
 4479.0 V02 Very strong signal AM 10-11-2000 Fri 0419 (WK)
 4479.0 V02a A 72724? 18461 72764 - Heavy distortion AM 10-11-2000 Fri 0400 (BM)
 4479.0 V02a ID=72734 18401 74731; stray numbers at 0352 AM 10-11-2000 Fri 0400 (BS2)
 4479.0 V02a A 51334 83383 20191 AM 22-11-2000 Wed 0300 (JM4)
 4479.0 V02a? Faint cxx, nothing audible by :11 AM 15-11-2000 Wed
 4505 M21 Russian Air Defense. = 99? t2t7 ?99?????? =
 t4954t164371t CW 16-11-2000 Thu 2307 (TR)
 4506.5 M08a DDMTD RATMD AAWGU (33903 61093 11584); misc V2a snippets 0253 to :57
 4560.0 E10 YHF2 USB 01-11-2000 Wed 1700 (GG)
 4560.0 E10 YHF USB 08-11-2000 Wed 0230 (JM4)

4560.0 E10 YHF2 USB 08-11-2000 Wed 2100 (GG)
 4560.0 E10 YHF2 USB 08-11-2000 Wed 2130 (GG)
 4560.0 E10 //7918 YHF (24) HEQZC USB 14-11-2000 Tue 0230 (JM4)
 4560.0 E10 //7918 YHF (24) HEQZC USB 16-11-2000 Thu 0230 (JM4)
 4560.0 E10 YHF2 USB 17-11-2000 Fri 2100 (GG)
 4560.0 E10 YHF2 USB 18-11-2000 Sat 1630 (GG)
 4560.0 E10 in progress strong USB 19-11-2000 Sun 0415 (GG)
 4560.0 E10 //7918 YHF (31) LAGTB AM 22-11-2000 Wed 0230 (JM4)
 4560.0 E10 YHF2 USB 26-11-2000 Sun 1630 (GG)
 4560.0 G07 Repeat of 2100 UTC, very much noise: 267 267 267 1
 ...527 181 527 181, 181 grou AM 27-11-2000 Mon 2150
 4635.0 E05 //5812 rptg 863 Count 75 702/14 AM 08-11-2000 Wed 0200
 (JM4)
 4635.0 E05 In progress, down by :25 //5812 AM 11-11-2000 Sat 0221
 4635.0 E05 same as 5812, message 863 AM 15-11-2000 Wed 0200 (WK)
 4635.0 E05 Rptg 863 count 75 702/14 //5812 AM 15-11-2000 Wed 0200
 (GH)
 4635.0 E05 //5812 in progress AM 22-11-2000 Wed 0200 (JM4)
 4635.0 E05 204 count 135 AM 25-11-2000 Sat 0200 (BM)
 4780.0 E10 //6912 MIW2 AM 08-11-2000 Wed 0215 (JM4)
 4780.0 E10 MIW2 USB 08-11-2000 Wed 2215 (GG)
 4780.0 E10 MIW2 USB 09-11-2000 Thu 2215 (GG)
 4880 E10 Israeli Intel. In progress AM 11-11-2000 Sat 2004 (ANA)
 4880 E10 Israeli Intel. In progress AM 11-11-2000 Sat 2036 (ANA)
 4880 E10 Israeli Intel. In progress AM 12-11-2000 Sun 1642 (ANA)
 4880 E10 Israeli Intel. In progress AM 12-11-2000 Sun 1711 (ANA)
 4880.0 E10 ULX 91 GVEMJ USB 05-11-2000 Sun 2230 (GG)
 4880.0 E10 ULX 83 IZWZB USB 05-11-2000 Sun 2300 (GG)
 4880.0 E10 ULX2 USB 08-11-2000 Wed 2100 (GG)
 4880.0 E10 ULX USB 08-11-2000 Wed 2130 (GG)
 4880.0 E10 ULX2 USB 08-11-2000 Wed 2200 (GG)
 4880.0 E10 ULX2 USB 09-11-2000 Thu 2200 (GG)
 4880.0 E10 ULX 2 msgs: 91 GVEMJ/37 UYIPY USB 09-11-2000 Thu 2230
 (GG)
 4880.0 E10 ULX 93 XYPSP USB 14-11-2000 Tue 2200 (GG)
 4880.0 E10 ULX call -> 2236Z+5s blank+2 ULXs+rpt of 2200 msg (93
 XYSP) USB 14-11-2000 Tue 2230 (GG)
 4880.0 E10 ULX2 USB 17-11-2000 Fri 2100 (GG)
 4880.0 E10 ULX 41 SZKFE USB 18-11-2000 Sat 1630 (GG)
 4880.0 E10 ULX 66 GCIVN USB 18-11-2000 Sat 2130 (GG)
 4880.0 E10 in progress strong USB 19-11-2000 Sun 0415 (GG)
 4880.0 E10 ULX USB 25-11-2000 Sat 2000 (GG)
 4880.0 E10 in progress USB 25-11-2000 Sat 2043 (GG)
 4880.0 E10 ULX 34 SRQFW USB 26-11-2000 Sun 1600 (GG)
 4880.0 E10 ULX 19 SZKFE USB 26-11-2000 Sun 1630 (GG)
 4880.0 E10 in progress USB 26-11-2000 Sun 2314 (GG)
 4880.0 E10a ULX1 USB 19-11-2000 Sun 0430 (GG)
 5088 E10 Israeli Intel. In progress AM 12-11-2000 Sun 1710 (ANA)

5090 E10 Israeli Intel. In progress AM 11-11-2000 Sat 2034 (ANA)
 5091.0 E10 JSR USB 01-11-2000 Wed 1700 (GG)
 5091.0 E10 JSR USB 01-11-2000 Wed 2200 (GG)
 5091.0 E10 JSR 51 YHPRY USB 05-11-2000 Sun 2230 (GG)
 5091.0 E10 JSR USB 08-11-2000 Wed 2100 (GG)
 5091.0 E10 JSR 35 DEDOK USB 08-11-2000 Wed 2130 (GG)
 5091.0 E10 JSR USB 08-11-2000 Wed 2200 (GG)
 5091.0 E10 JSR USB 09-11-2000 Thu 2200 (GG)
 5091.0 E10 JSR 51 YHPRY USB 09-11-2000 Thu 2230 (GG)
 5091.0 E10 JSR 11 QTQWZ (actual msg started @2205Z) USB 14-11-2000
 Tue 2200 (GG)
 5091.0 E10 JSR 113 AJIXL USB 14-11-2000 Tue 2230 (GG)
 5091.0 E10 JSR 26 OJWNS USB 17-11-2000 Fri 2100 (GG)
 5091.0 E10 JSR 30 GRZAI USB 18-11-2000 Sat 1630 (GG)
 5091.0 E10 JSR USB 18-11-2000 Sat 2130 (GG)
 5091.0 E10 JSR 73 CQHOR USB 18-11-2000 Sat 2130 (GG)
 5091.0 E10 JSR USB 18-11-2000 Sat 2200 (GG)
 5091.0 E10 JSR 113 AJIXL USB 18-11-2000 Sat 2230 (GG)
 5091.0 E10 in progress USB 20-11-2000 Mon 2104 (GG)
 5091.0 E10 JSR2 USB 25-11-2000 Sat 2000 (GG)
 5091.0 E10 in progress USB 25-11-2000 Sat 2043 (GG)
 5091.0 E10 JSR 53 FBSAX USB 25-11-2000 Sat 2100 (GG)
 5091.0 E10 barely audible USB 26-11-2000 Sun 1500 (GG)
 5091.0 E10 JSR2 USB 26-11-2000 Sun 1600 (GG)
 5091.0 E10 JSR 85 OIECH USB 26-11-2000 Sun 1630 (GG)
 5092 E10 Israeli Intel. In progress AM 12-11-2000 Sun 1637 (ANA)
 5109.0 XPH 481x3 1 03792 00051 AM 07-11-2000 Tue 2140 (VM)
 5135 V02 in progres AM 11-11-2000 Sat 0135 (TR)
 5162.0 XPH 771x3 1 00958 00175 AM 28-11-2000 Tue 2150 (VM)
 5170 E10 Israeli Intel. CI02 AM 11-11-2000 Sat 0145 (TR)
 5170.0 E10 CI02 USB 05-11-2000 Sun 2245 (GG)
 5170.0 E10 CI02 USB 07-11-2000 Tue 0045 (JM4)
 5170.0 E10 CI02 USB 07-11-2000 Tue 0145 (JM4)
 5170.0 E10 //4360 CI02 USB 08-11-2000 Wed 0145 (JM4)
 5170.0 E10 CI02 USB 08-11-2000 Wed 2145 (GG)
 5170.0 E10 CI02 USB 09-11-2000 Thu 2245 (GG)
 5170.0 E10 //4360 CI02 USB 10-11-2000 Fri 0045 (JM4)
 5170.0 E10 CI02 USB 13-11-2000 Mon 0045 (JM4)
 5170.0 E10 CI02 USB 14-11-2000 Tue 2245 (GG)
 5170.0 E10 CI02 USB 15-11-2000 Wed 0145 (JM4)
 5170.0 E10 CI02 USB 16-11-2000 Thu 0145 (JM4)
 5170.0 E10 CI02 USB 16-11-2000 Thu 0245 (JM4)
 5170.0 E10 //4360 CI02 USB 17-11-2000 Fri 0145 (JM4)
 5170.0 E10 CI02 USB 18-11-2000 Sat 2145 (GG)
 5170.0 E10 CI02 USB 22-11-2000 Wed 0245 (JM4)
 5170.0 E10 CI02 USB 25-11-2000 Sat 2045 (GG)
 5170.0 E10 //4360 CI02 USB 26-11-2000 Sun 2345 (JM4)
 5170.0 E10 CI02 USB 26-11-2000 Sun 2345 (GG)

5174 E05 Counting station. In progress AM 08-11-2000 Wed 1815
5184 G07 German Lady. 267/000 AM 14-11-2000 Tue 2130 (HFD)
5184.0 G07 Sked 267 Null message format AM 06-11-2000 Mon 2130
5230 E10 Israeli Intel. KPA2 AM 08-11-2000 Wed 1817 (ANA)
5230.0 E10 KPA2 USB 07-11-2000 Tue 0115 (JM4)
5230.0 E10 KPA2 USB 08-11-2000 Wed 0115 (JM4)
5230.0 E10 KPA2 USB 08-11-2000 Wed 0215 (JM4)
5230.0 E10 KPA2 USB 08-11-2000 Wed 2215 (GG)
5230.0 E10 KPA2 USB 09-11-2000 Thu 2215 (GG)
5230.0 E10 KPA2 USB 10-11-2000 Fri 0115 (JM4)
5230.0 E10 KPA2 USB 11-11-2000 Sat 0415 (GH)
5230.0 E10 KPA2 AM 12-11-2000 Sun 0215 (JM4)
5230.0 E10 KPA2 USB 14-11-2000 Tue 0115 (GH)
5230.0 E10 KPA2 USB 14-11-2000 Tue 0200 (JM4)
5230.0 E10 KPA2 USB 14-11-2000 Tue 0215 (GH)
5230.0 E10 KPA2 USB 14-11-2000 Tue 2215 (GG)
5230.0 E10 KPA2 USB 15-11-2000 Wed 0115 (GH)
5230.0 E10 KPA2 USB 15-11-2000 Wed 0115 (JM4)
5230.0 E10 KPA2 USB 16-11-2000 Thu 0115 (JM4)
5230.0 E10 KPA2 USB 16-11-2000 Thu 0215 (JM4)
5230.0 E10 KPA2 AM 17-11-2000 Fri 0115 (JM4)
5230.0 E10 KPA2 USB 17-11-2000 Fri 2115 (GG)
5230.0 E10 MIW2 USB 18-11-2000 Sat 1615 (GG)
5230.0 E10 KPA2 USB 18-11-2000 Sat 2215 (GG)
5230.0 E10 KPA2 USB 19-11-2000 Sun 0115 (JM4)
5230.0 E10 KPA2 USB 19-11-2000 Sun 0415 (GG)
5230.0 E10 KPA2 USB 21-11-2000 Tue 0115 (JM4)
5230.0 E10 KPA2 USB 22-11-2000 Wed 0215 (JM4)
5230.0 E10 KPA2 USB 25-11-2000 Sat 2015 (GG)
5230.0 E10 KPA2 USB 25-11-2000 Sat 2100 (GG)
5230.0 E10 KPA2 USB 26-11-2000 Sun 1515 (GG)
5230.0 E10 KPA2 USB 26-11-2000 Sun 1615 (GG)
5230.0 E10 KPA2 USB 26-11-2000 Sun 2315 (GG)
5230.0 E10 KPA2 USB 27-11-2000 Mon 0115 (JM4)
5238.0 E05 Rptg 405 count 187 023/88 //5812; strong (no antenna)
AM 10-11-2000 Fri 0300 (GH)
5238.0 E05 Rptg 602 count 132 837/44 //5812 AM 15-11-2000 Wed 0300
(GH)
5238.0 E05 same as 5812, message 602 AM 15-11-2000 Wed 0300 (WK)
5238.0 E05 //5812 rptg 602 Count 132 837/44 AM 22-11-2000 Wed 0300
(JM4)
5238.0 E05 ID=602 count=132; //5812 AM 23-11-2000 Thu 0300 (BS2)
5238.0 E10 ID=ART count=28 USB 23-11-2000 Thu 0400 (BS2)
5339.0 E10 SYN2 USB 05-11-2000 Sun 2245 (GG)
5339.0 E10 SYN2 USB 08-11-2000 Wed 0347 (GG)
5339.0 E10 SYN2 USB 08-11-2000 Wed 2145 (GG)
5339.0 E10 SYN2 USB 09-11-2000 Thu 2245 (GG)
5339.0 E10 SYN2 USB 14-11-2000 Tue 2245 (GG)

5339.0 E10 SYN2 USB 17-11-2000 Fri 0145 (JM4)
5339.0 E10 SYN2 USB 18-11-2000 Sat 1745 (GG)
5339.0 E10 SYN2 USB 18-11-2000 Sat 2145 (GG)
5339.0 E10 SYN2 USB 22-11-2000 Wed 0245 (JM4)
5339.0 E10 SYN2 USB 25-11-2000 Sat 2045 (GG)
5339.0 E10 SYN2 USB 26-11-2000 Sun 1645 (GG)
5339.0 E10 SYN2 USB 26-11-2000 Sun 2345 (GG)
5340 E10 Israeli Intel. SYN2 AM 12-11-2000 Sun 1650 (ANA)
5371 E05 Counting station. In progress AM 11-11-2000 Sat 1936
5372 E05 3x"736" + 1234567890 AM 08-11-2000 Wed 1908 (ANA)
5380 E10 Israeli Intel. VLB2 AM 12-11-2000 Sun 1650 (ANA)
5417.0 V02a in progress AM 03-11-2000 Fri 0200 (JM4)
5417.0 V02a A 02651 30661 62351 AM 10-11-2000 Fri 0200 (JM4)
5417.0 V02a A 02653 30662 62352 AM 17-11-2000 Fri 0200 (JM4)
5419.5 M08a WUMGU AWTIU NUATD (54984 15074 24103) CW 09-11-2000 Thu
0300 (GH)
5419.5 M08a ----- WDTGA (----- 53081), weak CW
11-11-2000 Sat 0221 (GH)
5422.0 E03 in progress USB 05-11-2000 Sun 2232 (GG)
5435 E10 Israeli Intel. In progress AM 08-11-2000 Wed 1944 (ANA)
5435 E10 Israeli Intel. ART2 AM 09-11-2000 Thu 1900 (ANA)
5435 E10 ART gr.52 AM 16-11-2000 Thu 2330 (TR)
5435.0 E10 ART 7 P?CCT USB 01-11-2000 Wed 1700 (GG)
5435.0 E10 ART2 USB 05-11-2000 Sun 2230 (GG)
5435.0 E10 ID=ART2 USB 07-11-2000 Tue 0500 (BS2)
5435.0 E10 in progress USB 08-11-2000 Wed 0145 (JM4)
5435.0 E10 ART USB 08-11-2000 Wed 2100 (GG)
5435.0 E10 ART 91 FZGIZ USB 08-11-2000 Wed 2130 (GG)
5435.0 E10 ART2 USB 09-11-2000 Thu 2230 (GG)
5435.0 E10 ART2 USB 14-11-2000 Tue 2230 (GG)
5435.0 E10 in progress USB 15-11-2000 Wed 0145 (JM4)
5435.0 E10 ART (26) KK_P USB 16-11-2000 Thu 0000 (JM4)
5435.0 E10 in progress USB 16-11-2000 Thu 0145 (JM4)
5435.0 E10 USB 16-11-2000 Thu 0400 (WK)
5435.0 E10 ART (45) U__IO (9) KYQC_ USB 17-11-2000 Fri 0130 (JM4)
5435.0 E10 ID=ART count=95, 9 (2 msgs?); broadcast stopped
abruptly at 0153 USB 17-11-2000 Fri 0130 (BS2)
5435.0 E10 ART 120 FVNVQ USB 17-11-2000 Fri 2100 (GG)
5435.0 E10 ART USB 18-11-2000 Sat 1630 (GG)
5435.0 E10 ART2 USB 18-11-2000 Sat 1730 (GG)
5435.0 E10 ART USB 18-11-2000 Sat 2130 (GG)
5435.0 E10 ART2 USB 18-11-2000 Sat 2230 (GG)
5435.0 E10 ART (95) U__I_ (9) KYQC_ AM 19-11-2000 Sun 0130 (JM4)
5435.0 E10 ART 8 NKEAN USB 19-11-2000 Sun 0430 (GG)
5435.0 E10 in progress USB 20-11-2000 Mon 2104 (GG)
5435.0 E10 ART count=28 AM 21-11-2000 Tue 0400 (BS2)
5435.0 E10 ID=ART, count=8 USB 21-11-2000 Tue 0430 (BS2)
5435.0 E10 ID=(ART?) count=95, 9 (2 msgs); stopped at 0153

(identical to 11/17 broadcast!)

5435.0	E10	ID=ART count=28 USB 23-11-2000 Thu 0400 (BS2)
5435.0	E10	ART 80 WKKJT USB 25-11-2000 Sat 2000 (GG)
5435.0	E10	in progress (86 CPWRA) USB 25-11-2000 Sat 2043 (GG)
5435.0	E10	ART 24 VCABT USB 25-11-2000 Sat 2100 (GG)
5435.0	E10	ART USB 26-11-2000 Sun 1600 (GG)
5435.0	E10	ART 2 msgs: 53 JHSEK/11 SDCUN USB 26-11-2000 Sun 1630 (GG)
5435.0	E10	in progress USB 26-11-2000 Sun 2341 (GG)
5435.0	E10	in progress USB 26-11-2000 Sun 2345 (JM4)
5435.0	E10	ID=ART count=52,11 (2msgs) USB 27-11-2000 Mon 0430 (BS2)
5435.0	E10	ID=ART2; no message, off air at 0503 USB 27-11-2000 Mon 0500 (BS2)
5437	E10	Israeli Intel. ART AM 11-11-2000 Sat 2002 (ANA)
5437	E10	Israeli Intel. In progress AM 12-11-2000 Sun 1635 (ANA)
5437.0	E10	ART2 USB 01-11-2000 Wed 2200 (GG)
5437.0	E10	ART2 USB 08-11-2000 Wed 2200 (GG)
5437.0	E10	ART 96 TAYQC USB 09-11-2000 Thu 2200 (GG)
5437.0	E10	ART 91 WQGFMB USB 14-11-2000 Tue 2200 (GG)
5437.0	E10	ART USB 18-11-2000 Sat 2200 (GG)
5438	E10	Israeli Intel. In progress AM 12-11-2000 Sun 1840 (ANA)
5438.0	E10	ID=(ART?) count=90; joined in progress USB 24-11-2000 Fri 2215 (BS2)
5438.0	G07	Sked 267 Null message format AM 06-11-2000 Mon 2110
5438.0	G07	Strong nice Signal, 267 267 267 1 ...,527 181 527 181, 181 groups of 5 numbers, AM 27-11-2000 Mon 2110 (AF)
5460.0	E06	915-436/517 33220 ID915 broadcasted until 2237 AM 24-11-2000 Fri 2200 (JE)
5465	MX	Russian Mil. Izhevsk. Channelmarker R CW 09-11-2000 Thu 1925 (ANA)
5465.4	MX	Russian Mil Izhevsk. Channelmarker 'R' CW 27-11-2000 Mon 2043 (RGA)
5532	M53	N. Korean Intel. ... 6t367 71588 95764 72769 35948 44574 ar ar sk sk CW 23-10-2000 Mon 1507 (IB)
5667.0	M13	22x5f grps for id 757, dk 219 MCW 17-11-2000 Fri 2245 (ANEUR)
5745	E03	Lincolnshire Poacher USB 08-11-2000 Wed 1911 (ANA)
5746.0	E03	id 94803 USB 23-11-2000 Thu 2100 (ANEUR)
5750.0	E06	USB 28-11-2000 Tue 2120 (ANEUR)
5758.5	M08a	in progress CW 12-11-2000 Sun 0200 (JM4)
5758.5	M08a	DDMTD RATMD AAWGU (33903 61093 11584) CW 15-11-2000 Wed 0200 (GH)
5770.0	E06	103x3 00000 AM 11-11-2000 Sat 2200 (JE)
5809.0	XPH	481x3 1 06189 00091 AM 03-11-2000 Fri 2120 (VM)
5809.0	XPH	481x3 1 03792 00051 AM 07-11-2000 Tue 2120 (VM)
5809.0	XPH	481x3 000 AM 14-11-2000 Tue 2120 (VM)
5809.0	XPH	481x3 000 AM 17-11-2000 Fri 2120 (VM)

5809.0 XPH 481x3 000 AM 21-11-2000 Tue 2120 (VM)
 5809.0 XPH 481x3 000 AM 28-11-2000 Tue 2120 (VM)
 5809.0 XPH "481 481 481 000" This sequence has been repeated 8
 times AM 28-11-2000 Tue 2120 (AF)
 5810.0 E05 For 10 minutes, "405 1234567890", then tones, then 3/2
 groups. Active nearly e AM 03-11-2000 Fri 0300 (MED)
 5810.0 G07 Repeat of 2100 UTC, much noise: 267 267 267 1 ...,527
 181 527 181, 181 groups of AM 27-11-2000 Mon 2130 (AF)
 5812.0 E05 In prog. AM 01-11-2000 Wed 0303 (BM)
 5812.0 E05 //4635 rptg 863 Count 75 702/14 AM 08-11-2000 Wed 0200
 (JM4)
 5812.0 E05 Rptg 405 count 187 023/88 //5238 AM 10-11-2000 Fri 0300
 (GH)
 5812.0 E05 In prog AM 10-11-2000 Fri 0338 (BM)
 5812.0 E05 In progress, down by :25 //4635 AM 11-11-2000 Sat 0221
 5812.0 E05 message 863 AM 15-11-2000 Wed 0200 (WK)
 5812.0 E05 Rptg 863 count 75 702/14 //4635 AM 15-11-2000 Wed 0200
 (GH)
 5812.0 E05 Rptg 602 count 132 837/44 //5238 AM 15-11-2000 Wed 0300
 (GH)
 5812.0 E05 Message 602 AM 15-11-2000 Wed 0300 (WK)
 5812.0 E05 //4635 in progress AM 22-11-2000 Wed 0200 (JM4)
 5812.0 E05 //5238 rptg 602 Count 132 837/44 AM 22-11-2000 Wed 0300
 (JM4)
 5812.0 E05 ID=602 count=132; //5238 AM 23-11-2000 Thu 0300 (BS2)
 5812.0 E05 AM 23-11-2000 Thu 0300 (BS2)
 5818 E10 Israeli Intel. YHF2 AM 11-11-2000 Sat 2000 (ANA)
 5820 E10 Israeli Intel. In progress AM 08-11-2000 Wed 1805 (ANA)
 5820 E10 Israeli Intel. YHF2 AM 09-11-2000 Thu 1903 (ANA)
 5820 E10 Israeli Intel. YHF2 AM 11-11-2000 Sat 2032 (ANA)
 5820 E10 Israeli Intel. YHF2 AM 12-11-2000 Sun 1632 (ANA)
 5820.0 E10 YHF2 USB 01-11-2000 Wed 1700 (GG)
 5820.0 E10 YHF USB 01-11-2000 Wed 2200 (GG)
 5820.0 E10 YHF2 USB 08-11-2000 Wed 2130 (GG)
 5820.0 E10 YHF USB 08-11-2000 Wed 2200 (GG)
 5820.0 E10 YHF 74 ZRQWX USB 09-11-2000 Thu 2200 (GG)
 5820.0 E10 YHF2 USB 14-11-2000 Tue 2200 (GG)
 5820.0 E10 YHF2 USB 26-11-2000 Sun 1630 (GG)
 5870.0 M51? 5LG in progress CW 14-11-2000 Tue 0703 (GH)
 5920 E06 English Man. 876, gc 139 AM 14-11-2000 Tue 2219 (JMM)
 5920.0 E06 ended with 876 876 139 139 00000 USB 14-11-2000 Tue
 2219 (GG)
 6270.0 E10 //7760 ULX USB 01-11-2000 Wed 0100 (JM4)
 6270.0 E10 ULX 91 GVEMJ USB 05-11-2000 Sun 2230 (GG)
 6270.0 E10 ULX 83 IZWZB USB 05-11-2000 Sun 2300 (GG)
 6270.0 E10 //7760 ULX (77) AIVG_ USB 07-11-2000 Tue 0100 (JM4)
 6270.0 E10 ID=ULX count=7 USB 07-11-2000 Tue 0430 (BS2)
 6270.0 E10 //7760 ULX (77) AIVGZ USB 08-11-2000 Wed 0100 (JM4)

6270.0 E10 ULX 54 BJQFL USB 08-11-2000 Wed 0400 (GG)
6270.0 E10 ULX2 USB 08-11-2000 Wed 2100 (GG)
6270.0 E10 ULX2 USB 08-11-2000 Wed 2200 (GG)
6270.0 E10 ULX2 USB 09-11-2000 Thu 2200 (GG)
6270.0 E10 ULX 2 msgs: 91 GVEMJ/37 UYIPY USB 09-11-2000 Thu 2230 (GG)
6270.0 E10 //7760 ULX USB 10-11-2000 Fri 0100 (JM4)
6270.0 E10 signal barely audible above noise level USB 10-11-2000 Fri 0422 (WK)
6270.0 E10 ULX group 100 GMJP(0?) USB 11-11-2000 Sat 0400 (GH)
6270.0 E10 ULX weak USB 11-11-2000 Sat 0430 (GH)
6270.0 E10 ULX v. weak into 5LG USB 11-11-2000 Sat 0500 (GH)
6270.0 E10 ULX weak into 5LG USB 13-11-2000 Mon 0100 (GH)
6270.0 E10 ULX group 77 AIVGZ //7760 USB 14-11-2000 Tue 0100 (GH)
6270.0 E10 ULX group 100 GMJP(0) AM 14-11-2000 Tue 0400 (GH)
6270.0 E10 ULX 93 XYPS USB 14-11-2000 Tue 2200 (GG)
6270.0 E10 ULX call -> 2236Z+5s blank+2 ULXs+rpt of 2200 msg (93 XYSP) USB 14-11-2000 Tue 2230 (GG)
6270.0 E10 ULX group 77 AIVGZ //7760 USB 15-11-2000 Wed 0100 (GH)
6270.0 E10 USB 16-11-2000 Thu 0100 (WK)
6270.0 E10 //7760 ULX USB 16-11-2000 Thu 0100 (JM4)
6270.0 E10 USB 16-11-2000 Thu 0400 (WK)
6270.0 E10 USB 17-11-2000 Fri 0100 (WK)
6270.0 E10 //7760 in progress AM 17-11-2000 Fri 0100 (JM4)
6270.0 E10 ULX2 USB 17-11-2000 Fri 2100 (GG)
6270.0 E10 USB 18-11-2000 Sat 0100 (WK)
6270.0 E10 ULX 93 YP??? USB 18-11-2000 Sat 2230 (GG)
6270.0 E10 //7760 ULX (77) A_VG_ USB 19-11-2000 Sun 0100 (JM4)
6270.0 E10 in progress weak USB 19-11-2000 Sun 0415 (GG)
6270.0 E10 //7760 ULX (77) AIVGZ AM 21-11-2000 Tue 0100 (JM4)
6270.0 E10 in progress USB 25-11-2000 Sat 2043 (GG)
6270.0 E10 ULX USB 26-11-2000 Sun 1500 (GG)
6270.0 E10 ULX 34 SRQFW USB 26-11-2000 Sun 1600 (GG)
6270.0 E10 ULX 19 SZKFE USB 26-11-2000 Sun 1630 (GG)
6270.0 E10 in progress USB 26-11-2000 Sun 2314 (GG)
6270.0 E10 //7760 ULX (77) AIVGZ AM 27-11-2000 Mon 0100 (JM4)
6370 E10 Israeli Intel. VLB2 AM 09-11-2000 Thu 1848 (ANA)
6370.0 E10 VLB2 USB 01-11-2000 Wed 0145 (JM4)
6370.0 E10 VLB2 USB 05-11-2000 Sun 2245 (GG)
6370.0 E10 VLB2 USB 07-11-2000 Tue 0045 (JM4)
6370.0 E10 VLB2 USB 07-11-2000 Tue 0145 (JM4)
6370.0 E10 VLB2 USB 07-11-2000 Tue 2345 (JM4)
6370.0 E10 VLB2 USB 08-11-2000 Wed 0145 (JM4)
6370.0 E10 VLB2 USB 08-11-2000 Wed 2145 (GG)
6370.0 E10 VLB2 USB 09-11-2000 Thu 2245 (GG)
6370.0 E10 VLB2 USB 10-11-2000 Fri 0045 (JM4)
6370.0 E10 VLB2 USB 10-11-2000 Fri 0145 (JM4)
6370.0 E10 ___2, barely audible USB 11-11-2000 Sat 0245 (GH)

6370.0 E10 VLB2 USB 11-11-2000 Sat 0445 (GH)
6370.0 E10 MIW2 USB 14-11-2000 Tue 0215 (GH)
6370.0 E10 MIW2 USB 14-11-2000 Tue 2215 (GG)
6370.0 E10 MIW2 USB 15-11-2000 Wed 0115 (GH)
6370.0 E10 //10125 MIW2 USB 16-11-2000 Thu 0115 (JM4)
6370.0 E10 //10125 MIW2 AM 16-11-2000 Thu 0215 (JM4)
6370.0 E10 //8025//10125 MIW2 AM 17-11-2000 Fri 0115 (JM4)
6370.0 E10 MIW2 USB 17-11-2000 Fri 2115 (GG)
6370.0 E10 MIW2 USB 18-11-2000 Sat 2215 (GG)
6370.0 E10 //8025//10125 MIW2 AM 19-11-2000 Sun 0115 (JM4)
6370.0 E10 //8025//10125 MIW2 USB 21-11-2000 Tue 0115 (JM4)
6370.0 E10 //8025//10125 MIW2 AM 22-11-2000 Wed 0215 (JM4)
6370.0 E10 MIW2 USB 25-11-2000 Sat 2015 (GG)
6370.0 E10 MIW2 USB 25-11-2000 Sat 2100 (GG)
6370.0 E10 MIW2 USB 26-11-2000 Sun 2315 (GG)
6370.0 E10 //8025//10125 MIW2 AM 27-11-2000 Mon 0115 (JM4)
6379 M22 4XZ. Israeli Navy Tel Aviv. vvv de 4xz == ar nw qtc 1
nr 213 == qsl nr 15 == e2h nr 313 zu gr 76 == qn8y CW
15-11-2000 Wed 2200 (TR)
6417 Slot machine // 8588 kHz 09-11-2000 Thu 1910 (ISO)
6417 Slot machine // 8588 kHz 10-11-2000 Fri 2140 (ISO)
6485 E03? 5FGx2 USB 08-11-2000 Wed 1917 (ANA)
6498.0 E10 PCD USB 01-11-2000 Wed 2200 (GG)
6498.0 E10 PCD 70 BXZQN USB 08-11-2000 Wed 2200 (GG)
6498.0 E10 PCD 70 BXZQN USB 09-11-2000 Thu 2200 (GG)
6498.0 E10 PCD(?) in progress USB 10-11-2000 Fri 0030 (JM4)
6498.0 E10 in progress USB 13-11-2000 Mon 0030 (JM4)
6498.0 E10 PCD 34 NTWZE USB 19-11-2000 Sun 0430 (GG)
6498.0 E10 PCD 15 RYYHJ USB 25-11-2000 Sat 2100 (GG)
6498.0 E10 PCD heavy QRM USB 26-11-2000 Sun 1600 (GG)
6529.0 Sounds like random babbling USB 15-11-2000 Wed 2300
6529.0 Live, he had a call during a pause, and he replied,
could be Aribic? USB 16-11-2000 Thu 0000 (WK)
6529.0 Definatly sounds like Arabic USB 18-11-2000 Sat 0000
6529.0 Babbler USB 18-11-2000 Sat 0010 (WK)
6632 M53 N. Korean Intel. VVV CQ 113, 1t3 CW 06-10-2000 Fri 1433
6637.0 M13? Slow, rptg 880?? Too weak to be sure +Cedar Rapids
LDOC CW 09-11-2000 Thu 0600 (GH)
6768.0 V02a A 14811 70963 07761 Rept of 0300 6855 broadcast AM
27-11-2000 Mon 0400 (BM)
6780.0 E06 ip ?-436/517 AM 23-11-2000 Thu 2200 (JE)
6780.0 E06 915 436x2 517x2 Long message! AM 24-11-2000 Fri 2100
6780.0 E06 915-436/517 33220 AM 24-11-2000 Fri 2100 (JE)
6780.0 M10 555x3 131x3 20x2 (DK 48) 296x3 40x2 (DK 46) CW
26-11-2000 Sun 0130 (VM)
6781 XPH 771x3 100785 00249 AM 24-11-2000 Fri 2130 (VM)
6781.0 XPH 771x3 1 00785 00249 AM 24-11-2000 Fri 2130 (VM)
6781.0 XPH 771x3 1 00958 00175 AM 28-11-2000 Tue 2130 (VM)

6782.0 M12 In progress CW 27-11-2000 Mon 0309 (VM)
6790 After beeps "x37" and off AM 08-11-2000 Wed 1834 (ANA)
6817.0 XM Backwards Music Station USB 08-11-2000 Wed 0140 (JM4)
6817.0 XM Backwards Music Station USB 16-11-2000 Thu 0240 (JM4)
6817.0 XM Backward Music Station USB 17-11-2000 Fri 0135 (JM4)
6840 E10 Israeli Intel. In progress AM 12-11-2000 Sun 1920 (ANA)
6840.0 E10 EZI v. weak USB 14-11-2000 Tue 0300 (GH)
6842 E10 Israeli Intel. In progress AM 08-11-2000 Wed 1920 (ANA)
6842 E10 Israeli Intel. In progress AM 09-11-2000 Thu 1909 (ANA)
6842.0 E10 EZI 118 RQXHN USB 01-11-2000 Wed 2200 (GG)
6842.0 E10 EZI USB 08-11-2000 Wed 2200 (GG)
6855.0 V02a A 14811 70963 07761 AM 27-11-2000 Mon 0300
6869 "Atencion" 5FG, 0730 ends AM 18-11-2000 Sat 0721 (ANA)
6900.0 E03 22383 USB 25-11-2000 Sat 2000 (GG)
6903 Unid. Same as 9726 kHz??? CW 11-07-2000 0130 (GH)
6903.0 unid 5FG w/long zero CW 07-11-2000 Tue 0130 (JM4)
6912 E10 Israeli intel. KPA2 AM 01-11-2000 Wed 0119 (MADX)
6912.0 E10 KPA2 USB 01-11-2000 Wed 0115 (JM4)
6912.0 E10 MIW2 (switched from KPA) USB 03-11-2000 Fri 0215 (JM4)
6912.0 E10 MIW2 USB 07-11-2000 Tue 0115 (JM4)
6912.0 E10 MIW2 AM 08-11-2000 Wed 0115 (JM4)
6912.0 E10 //4780 MIW2 AM 08-11-2000 Wed 0215 (JM4)
6912.0 E10 MIW2 USB 08-11-2000 Wed 2115 (GG)
6912.0 E10 MIW2 USB 08-11-2000 Wed 2215 (GG)
6912.0 E10 MIW2 USB 09-11-2000 Thu 2215 (GG)
6912.0 E10 MIW2 USB 11-11-2000 Sat 0515 (GH)
6912.0 E10 MIW2 AM 12-11-2000 Sun 0215 (JM4)
6912.0 E10 //8127 VLB2 USB 13-11-2000 Mon 0045 (JM4)
6912.0 E10 VLB2 USB 14-11-2000 Tue 2245 (GG)
6912.0 E10 //8127//10352 VLB2 USB 15-11-2000 Wed 0145 (JM4)
6912.0 E10 //8127//10352 VLB2 USB 16-11-2000 Thu 0245 (JM4)
6912.0 E10 //8127//10352 VLB2 AM 17-11-2000 Fri 0145 (JM4)
6912.0 E10 VLB2 USB 18-11-2000 Sat 2145 (GG)
6912.0 E10 //8127//10352 VLB2 AM 22-11-2000 Wed 0245 (JM4)
6912.0 E10 VLB2 USB 25-11-2000 Sat 2045 (GG)
6912.0 E10 //8127//10352 VLB2 AM 26-11-2000 Sun 2345 (JM4)
6913 E10 Israeli Intel. MIW2 AM 12-11-2000 Sun 1816 (ANA)
6939 M51 French Intel. nr 73 o 06 01:31:28 2000 bt qmiao xjxwz
uhogl... CW 05-10-2000 Thu 2333 (IB)
6959 E03 Lincolnshire Poacher USB 08-11-2000 Wed 1844 (ANA)
6959 E03 Lincolnshire Poacher USB 12-11-2000 Sun 1902 (ANA)
6959 E03 Lincolnshire Poacher USB 27-11-2000 Mon 2028 (RGA)
6959.0 E03 80872 USB 06-11-2000 Mon 2200 (GG)
6959.0 E03 61851 USB 14-11-2000 Tue 2200 (GG)
6959.0 E03 44250 USB 17-11-2000 Fri 2100 (GG)
6959.0 E03 in progress USB 18-11-2000 Sat 2144 (GG)
6959.0 E03 39221 USB 20-11-2000 Mon 2100 (GG)
6959.0 E03 10753 USB 20-11-2000 Mon 2200 (GG)

6959.0 E03 57812 USB 25-11-2000 Sat 2100 (GG)
6959.0 E10 44250 USB 18-11-2000 Sat 2200 (GG)
6960 E03 Lincolnshire Poacher. In progress USB 24-11-2000 Fri
2227 (BS2)
6960.0 E03 In progress (missed ID) USB 24-11-2000 Fri 2223 (BS2)
6960.0 E05 Call 808 USB 01-11-2000 Wed 2200 (GG)
6960.0 E05 Call 808 Count 195 443/77 ... USB 06-11-2000 Mon 2200
6960.0 E05 //9090 ID 808 Count 195 443/77 614/34 359/91 USB
06-11-2000 Mon 2200 (DR)
6960.0 E05 SYN2 Call 808 Count 195 443/77 ... USB 08-11-2000 Wed
2200 (GG)
6960.0 E05 Call 731 USB 20-11-2000 Mon 2200 (GG)
6960.0 E05 //9090 rptg 731 Count 198 789/35 USB 20-11-2000 Mon
2200 (JM4)
6960.0 E05 Call 227 Count 175 470/09 ... USB 22-11-2000 Wed 2200
6960.0 E05 //9090 rptg 227 Count 175 470/09 AM 22-11-2000 Wed 2200
(JM4)
6964.0 E07 OM EE nil message 981 000 USB 20-11-2000 Mon 2100 (GG)
6986.0 E10 ART USB 08-11-2000 Wed 2100 (GG)
6986.0 E10 ART v. weak into 5LG at least to :11 USB 14-11-2000 Tue
0400 (GH)
6986.0 E10 USB 16-11-2000 Thu 0400 (WK)
6986.0 E10 ART 120 FFFVNB USB 17-11-2000 Fri 2100 (GG)
6986.0 E10 in progress USB 20-11-2000 Mon 2104 (GG)
6986.0 E10 ART 24 VCABT USB 25-11-2000 Sat 2100 (GG)
6986.0 E10 ART 39 ZYMJK USB 26-11-2000 Sun 1500 (GG)
7256.0 M3 624/00 CW 11-11-2000 Sat 0800 (GH)
7337.0 E03 48438 USB 08-11-2000 Wed 2100 (GG)
7337.0 E03 LP calling 15489 //9251 //12603 USB 08-11-2000 Wed 2200
(GH)
7337.0 E03 15489 USB 08-11-2000 Wed 2200 (GG)
7337.0 E03 48438 USB 09-11-2000 Thu 2200 (GG)
7358.0 E10 FTJ 2 msgs: 69 JFHUL/110 VSBSL USB 08-11-2000 Wed 2100
(GG)
7358.0 E10 FTJ 2 msgs: 44 GYJNW/48 GGBPU USB 17-11-2000 Fri 2100
(GG)
7358.0 E10 in progress USB 20-11-2000 Mon 2104 (GG)
7358.0 E10 FTJ 48 GGBPU USB 25-11-2000 Sat 2100 (GG)
7426.0 XPH 481x3 000 AM 28-11-2000 Tue 2100 (VM)
7445.0 E10 SYN2 USB 11-11-2000 Sat 0445 (GH)
7479.0 V02 Atencion 263/04 04/52 AM 12-11-2000 Sun 2200 (GH)
7540.0 E10 JSR USB 01-11-2000 Wed 1700 (GG)
7540.0 E10 in progress USB 25-11-2000 Sat 2043 (GG)
7555.0 V02a A 11401 99363 33251 broadcast over religious show;
amusing. AM 05-11-2000 Sun 0300 (BM)
7555.0 V02a A ????? 43162 91631; fast uno; same prev hr? bcast over
religious show USB 26-11-2000 Sun 0300 (BM)
7570 138 Chinese station. YL/CC. "370 this is 138. nr 109 gr 10

1068 6033 8145 7254 5835 5743 5290 7224 6366 2401 bye
AM 07-11-2000 Tue 2102 (IB)

7605 E10 Israeli Intel. KPA2 AM 28-11-2000 Tue 0115 (LA)
7605 E10 Israeli Intel. KPA2 AM 28-11-2000 Tue 0215 (LA)
7605.0 E10 KPA2 USB 26-11-2000 Sun 1515 (GG)
7620.0 E05 Rptg 300 count 80 419/04 //9205 AM 11-11-2000 Sat 0300
7620.0 E05 Rptg 300 count ??; v. weak AM 14-11-2000 Tue 0300 (GH)
7668 M16 8BY. French Intel. 860/506/218 CW 18-11-2000 Sat 1949
(RGA)

7703.5 Slot Machine USB 20-11-2000 Mon 1600 (JM4)
7710 E10 Israeli Intel. ULX AM 28-11-2000 Tue 0100 (LA)
7740 1+1 clicks 12-11-2000 Sun 1657 (ANA)
7755.0 E03 //10426 weak USB 29-11-2000 Wed 1600 (JM4)
7755.0 E03 //10426 weak USB 29-11-2000 Wed 1600 (JM4)
7760.0 E10 //6270 ULX USB 01-11-2000 Wed 0100 (JM4)
7760.0 E10 YLX USB 02-11-2000 Thu 0100 (EOH)
7760.0 E10 //6270 ULX (77) AIVG_ USB 07-11-2000 Tue 0100 (JM4)
7760.0 E10 //6270 ULX (77) AIVGZ USB 08-11-2000 Wed 0100 (JM4)
7760.0 E10 ULX USB 09-11-2000 Thu 0100 (JM4)
7760.0 E10 //6270 ULX USB 10-11-2000 Fri 0100 (JM4)
7760.0 E10 ULX group 77 AIVGZ //6270 USB 14-11-2000 Tue 0100 (GH)
7760.0 E10 ULX group 77 AIVGZ //6270 USB 15-11-2000 Wed 0100 (GH)
7760.0 E10 USB 16-11-2000 Thu 0100 (WK)
7760.0 E10 //6270 ULX USB 16-11-2000 Thu 0100 (JM4)
7760.0 E10 USB 17-11-2000 Fri 0100 (WK)
7760.0 E10 //6270 in progress AM 17-11-2000 Fri 0100 (JM4)
7760.0 E10 USB 18-11-2000 Sat 0100 (WK)
7760.0 E10 //6270 ULX (77) A_VG_ USB 19-11-2000 Sun 0100 (JM4)
7760.0 E10 //6270 ULX (77) AIVGZ AM 21-11-2000 Tue 0100 (JM4)
7760.0 E10 //6270 ULX (77) AIVGZ AM 27-11-2000 Mon 0100 (JM4)
7768 M16 8BY. French Intel. VVV 8BY 506/816/538/612 CW
01-11-2000 Wed 2056 (EB)

7804 M42 FAPSI. In progress RTTY 29-11-2000 Wed 1605 (HPT)
7811.0 E10 (VLB?)2; v. weak USB 11-11-2000 Sat 0445 (GH)
7887.0 V02a A 11404 15942 25222 AM 12-11-2000 Sun 0200 (JM4)
7887.0 V02a A 51336 43162 91631 ; fast uno AM 26-11-2000 Sun 0200
7890.0 M08 CW 11-11-2000 Sat 1405 (BS3)
7918.0 E10 YHF USB 01-11-2000 Wed 0200 (JM4)
7918.0 E10 YHF USB 03-11-2000 Fri 0200 (JM4)
7918.0 E10 //9382 YHF (37) DAFAZ AM 10-11-2000 Fri 0130 (JM4)
7918.0 E10 YHF2 USB 10-11-2000 Fri 0200 (JM4)
7918.0 E10 YHF group 17 NS(0?)WG USB 11-11-2000 Sat 0430 (GH)
7918.0 E10 YHF2 USB 12-11-2000 Sun 0200 (JM4)
7918.0 E10 YHF2 USB 14-11-2000 Tue 0200 (JM4)
7918.0 E10 //4560 YHF (24) HEQZC USB 14-11-2000 Tue 0230 (JM4)
7918.0 E10 YHF group (2_?); v. weak USB 14-11-2000 Tue 0230 (GH)
7918.0 E10 YHF v. weak into 5LG USB 14-11-2000 Tue 0530 (GH)
7918.0 E10 //9382 YHF2 AM 15-11-2000 Wed 0130 (JM4)

7918.0 E10 YHF2 USB 15-11-2000 Wed 0200 (JM4)
7918.0 E10 //9382 YHF2 AM 16-11-2000 Thu 0130 (JM4)
7918.0 E10 YHF2 USB 16-11-2000 Thu 0200 (JM4)
7918.0 E10 //4560 YHF (24) HEQZC USB 16-11-2000 Thu 0230 (JM4)
7918.0 E10 //9382 YHF2 AM 17-11-2000 Fri 0130 (JM4)
7918.0 E10 YHF2 AM 17-11-2000 Fri 0200 (JM4)
7918.0 E10 in progress USB 18-11-2000 Sat 1611 (GG)
7918.0 E10 YHF2 USB 19-11-2000 Sun 0130 (JM4)
7918.0 E10 YHF2 USB 19-11-2000 Sun 0200 (JM4)
7918.0 E10 YHF 24 PEWTZ USB 19-11-2000 Sun 0430 (GG)
7918.0 E10 YHF USB 19-11-2000 Sun 0430 (GG)
7918.0 E10 YHF (47) PTMAY AM 22-11-2000 Wed 0200 (JM4)
7918.0 E10 //4560 YHF (31) LAGTB AM 22-11-2000 Wed 0230 (JM4)
7918.0 E10 FTJ USB 26-11-2000 Sun 1500 (GG)
7918.0 E10 YHF 53 NUVQU USB 26-11-2000 Sun 1500 (GG)
7918.0 E10 YHF 89 KNJXN USB 26-11-2000 Sun 1600 (GG)
7918.0 E10 //9382 YHF2 AM 27-11-2000 Mon 0130 (JM4)
8010.0 M08a? Nothing by :20 CW 10-11-2000 Fri 0800 (GH)
8025.0 E10 //10125 MIW2 (both freqs new to this call) USB
14-11-2000 Tue 0215 (JM4)
8025.0 E10 //6370//10125 MIW2 AM 17-11-2000 Fri 0115 (JM4)
8025.0 E10 //6370//10125 MIW2 AM 19-11-2000 Sun 0115 (JM4)
8025.0 E10 //6370//10125 MIW2 USB 21-11-2000 Tue 0115 (JM4)
8025.0 E10 //6370//10125 MIW2 AM 22-11-2000 Wed 0215 (JM4)
8025.0 E10 //6370//10125 MIW2 AM 27-11-2000 Mon 0115 (JM4)
8028 4+1 clicks 12-11-2000 Sun 1656 (ANA)
8051 Null Null ... 937 937 (call) AM 18-11-2000 Sat 0741
8080.0 E05 Rptg 808 count 195 (?), weak AM 08-11-2000 Wed 2200
8097.0 V02 AM 09-11-2000 Thu 0504 (WK)
8097.0 V02a In prog, _____ 25993 _____; fast cinco, running ~4 min
late AM 09-11-2000 Thu 0509 (GH)
8125.0 E05 in progress USB 25-11-2000 Sat 1929 (GG)
8127 E10 Israeli Intel. VLB2 AM 21-11-2000 Tue 1747 (PILE)
8127.0 E10 //6912 VLB2 USB 13-11-2000 Mon 0045 (JM4)
8127.0 E10 VLB2 USB 14-11-2000 Tue 2245 (GG)
8127.0 E10 //6912//10352 VLB2 USB 15-11-2000 Wed 0145 (JM4)
8127.0 E10 //10352 VLB2 USB 16-11-2000 Thu 0145 (JM4)
8127.0 E10 //6912//10352 VLB2 USB 16-11-2000 Thu 0245 (JM4)
8127.0 E10 //6912//10352 VLB2 AM 17-11-2000 Fri 0145 (JM4)
8127.0 E10 VLB2 USB 18-11-2000 Sat 1745 (GG)
8127.0 E10 VLB2 USB 18-11-2000 Sat 2145 (GG)
8127.0 E10 //6912//10352 VLB2 AM 22-11-2000 Wed 0245 (JM4)
8127.0 E10 VLB2 USB 25-11-2000 Sat 2045 (GG)
8127.0 E10 VLB2 USB 26-11-2000 Sun 1645 (GG)
8127.0 E10 VLB2 USB 26-11-2000 Sun 2345 (GG)
8127.0 E10 //6912//10352 VLB2 AM 26-11-2000 Sun 2345 (JM4)
8135.5 M08a in progress CW 21-11-2000 Tue 2300 (JM4)
8153.7 US Intel, Frankfurt. Usual 10 min transmission //

10160.7 kHz 108.87bd FSK 01-11-2000 Wed 1600 (LD0)
 8153.7 US Intel, Frankfurt // 10160.7 kHz. 108.87bd FSK
 20-11-2000 Mon 1600 (AB)
 8157 E17 English Lady AM 24-11-2000 Fri 0323 (MADX)
 8190 S17C 92034 AM 20-11-2000 Mon 1250 (AB)
 8300.0 V13 New Star, with Chinese flute tune, then YL/CC with
 numbers. USB 09-11-2000 Thu 1600 (MV)
 8300.0 V13 New Star, with Chinese flute tune, then YL/CC with
 numbers. USB 10-11-2000 Fri 1600 (MV)
 8300.0 V13 Cherry ripe ?? USB 15-11-2000 Wed 1400 (WK)
 8307 M23 579 (R10) CW 08-11-2000 Wed 1400 (AB)
 8307.0 M23 579 //9285 CW 11-11-2000 Sat 0800 (GH)
 8307.0 M23 579 //9285 CW 14-11-2000 Tue 0800 (GH)
 8437 M22 4XZ. Isreali Navy Tel Aviv. VVV marker CW 03-11-2000
 Fri 1426 (DW)
 8464.0 E03 in progress USB 05-11-2000 Sun 2232 (GG)
 8464.0 E03 94803 USB 26-11-2000 Sun 1600 (GG)
 8532.0 V02 In prog, 02/___ weak under heavy QRN; gone by :23 AM
 09-11-2000 Thu 0218 (GH)
 8532.0 V02 A 654/08 08/54 51485 AM 16-11-2000 Thu 0200 (JM4)
 8532.0 V02 AM 16-11-2000 Thu 0200 (WK)
 8588 Slot machine // 8703.5 kHz 06-11-2000 Mon 1300 (ISO)
 8588 Slot machine // 8703.5 kHz 06-11-2000 Mon 1400 (ISO)
 8588 Slot machine // 8703.5 kHz 06-11-2000 Mon 1440 (ISO)
 8588 Slot machine // 8703.5 kHz 06-11-2000 Mon 1500 (ISO)
 8588 Slot machine // 8703.5 kHz 07-11-2000 Tue 1400 (ISO)
 8588 Slot machine // 6417 kHz 09-11-2000 Thu 1910 (ISO)
 8588 Slot machine // 6417 kHz 10-11-2000 Fri 2140 (ISO)
 8588.0 Slot Machine USB 10-11-2000 Fri 1600 (JM4)
 8588.0 Slot Machine USB 12-11-2000 Sun 1600 (JM4)
 8588.0 Slot Machine USB 14-11-2000 Tue 1600 (JM4)
 8588.0 Slot Machine USB 15-11-2000 Wed 2200 (JM4)
 8588.0 Slot Machine USB 16-11-2000 Thu 1600 (JM4)
 8588.0 Slot Machine USB 19-11-2000 Sun 1530 (JM4)
 8588.0 Slot Machine USB 20-11-2000 Mon 1600 (JM4)
 8588.0 Slot Machine USB 21-11-2000 Tue 1600 (JM4)
 8588.0 Slot Machine USB 22-11-2000 Wed 1500 (JM4)
 8588.0 Slot Maching USB 30-11-2000 Thu 2210 (JM4)
 8636.0 V02 carrier til 0407 A 979/05 05/61 started near end 1st
 callup AM 26-11-2000 Sun 0400 (BM)
 8676.0 V02 A 616/06 06/35 80100 AM 01-11-2000 Wed 0200 (JM4)
 8703.5 Slot machine // 8588 kHz 06-11-2000 Mon 1300 (ISO)
 8703.5 Slot machine // 8588 kHz 06-11-2000 Mon 1400 (ISO)
 8703.5 Slot machine // 8588 kHz 06-11-2000 Mon 1440 (ISO)
 8703.5 Slot machine // 8588 kHz 06-11-2000 Mon 1500 (ISO)
 8703.5 Slot machine // 8588 kHz 07-11-2000 Tue 1400 (ISO)
 8703.5 Slot Machine USB 10-11-2000 Fri 1600 (JM4)
 8703.5 Slot Machine USB 12-11-2000 Sun 1600 (JM4)

8703.5 Slot Machine USB 15-11-2000 Wed 2200 (JM4)
8703.5 Slot Machine USB 16-11-2000 Thu 1600 (JM4)
8703.5 Slot Machine USB 19-11-2000 Sun 1530 (JM4)
8703.5 Slot Machine USB 21-11-2000 Tue 1600 (JM4)
8703.5 Slot Machine USB 22-11-2000 Wed 1500 (JM4)
8703.5 Slot Machine 30-11-2000 Thu 2210 (JM4)
8805.0 E10 PCD2 USB 01-11-2000 Wed 1700 (GG)
9024.0 V02 Atencion 516/06 06/35 AM 14-11-2000 Tue 0800 (GH)
9024.0 V02 Atencion 616/06 06/35 AM 15-11-2000 Wed 0200 (GH)
9024.0 V02 A 616/06 06/35 80100 AM 15-11-2000 Wed 0200 (JM4)
9024.0 V02 A 616/05 05/51 65155 AM 22-11-2000 Wed 0200 (JM4)
9062 M42 FAPSI. In progress RTTY 29-11-2000 Wed 1605 (HPT)
9090.0 E05 Call 808 USB 01-11-2000 Wed 2200 (GG)
9090.0 E05 Call 808 Count 195 443/77 ... USB 06-11-2000 Mon 2200
9090.0 E05 SYN2 Call 808 Count 195 443/77 ... USB 08-11-2000 Wed
2200 (GG)
9090.0 E05 //6960 rptg 731 Count 198 789/35 USB 20-11-2000 Mon
2200 (JM4)
9090.0 E05 Call 731 USB 20-11-2000 Mon 2200 (GG)
9090.0 E05 //6960 rptg 227 Count 175 470/09 AM 22-11-2000 Wed 2200
(JM4)
9090.0 E05 Call 227 Count 175 470/09 ... USB 22-11-2000 Wed 2200
9090.0 E17 AM 15-11-2000 Wed 2200 KA5DMZ
9112.5 M08a? Nothing by :17 CW 11-11-2000 Sat 0700 (GH)
9115.0 V02 Atencion 663/08 584/06 08/89 06/61; up w/o call 1st
time around AM 14-11-2000 Tue 0610 (GH)
9130.0 E10 //11565 EZI2 AM 01-11-2000 Wed 0100 (JM4)
9130.0 E10 EZI 118 RQXHN USB 01-11-2000 Wed 2200 (GG)
9130.0 E10 EZI2 USB 02-11-2000 Thu 0100 (EOH)
9130.0 E10 //11565 EZI (51) FXTLY AM 03-11-2000 Fri 0200 (JM4)
9130.0 E10 //11565 EZI2 USB 07-11-2000 Tue 0100 (JM4)
9130.0 E10 //11565 EZI (51) FXTLY USB 07-11-2000 Tue 0200 (JM4)
9130.0 E10 //11565 EZI2 USB 08-11-2000 Wed 0100 (JM4)
9130.0 E10 //11565 EZI (51) FXTLY AM 08-11-2000 Wed 0200 (JM4)
9130.0 E10 EZI 65 TNCYQ USB 08-11-2000 Wed 2100 (GG)
9130.0 E10 EZI USB 08-11-2000 Wed 2130 (GG)
9130.0 E10 EZI USB 08-11-2000 Wed 2200 (GG)
9130.0 E10 //11565 EZI2 AM 09-11-2000 Thu 0100 (JM4)
9130.0 E10 EZI 58 CJOYQ USB 09-11-2000 Thu 2200 (GG)
9130.0 E10 //11565 EZI (81) AEFJE AM 12-11-2000 Sun 0200 (JM4)
9130.0 E10 EZI weak into 5LG USB 13-11-2000 Mon 0300 (GH)
9130.0 E10 EZI2 //11565 USB 14-11-2000 Tue 0100 (GH)
9130.0 E10 //11565 EZI AM 14-11-2000 Tue 0200 (JM4)
9130.0 E10 5LG in progress USB 14-11-2000 Tue 0208 (GH)
9130.0 E10 EZI v. weak USB 15-11-2000 Wed 0100 (GH)
9130.0 E10 //11565 EZI (81) AEFJE AM 15-11-2000 Wed 0200 (JM4)
9130.0 E10 //11565 EZI (81) AEFJE USB 16-11-2000 Thu 0200 (JM4)
9130.0 E10 EZI 97 BWGRC USB 19-11-2000 Sun 0730 (GG)

9130.0 E10 //11565 EZI2 AM 21-11-2000 Tue 0100 (JM4)
 9130.0 E10 //11565 EZI USB 22-11-2000 Wed 0200 (JM4)
 9130.0 E10 EZI barely audible USB 25-11-2000 Sat 2100 (GG)
 9130.0 E10 //11565 EZI2 AM 27-11-2000 Mon 0100 (JM4)
 9137 M42 FAPSI. Msgs on link 00063 RTTY 01-12-2000 Fri 1730 (JD)
 9202.1 Female Passed a very long string of phonetic letters in
 English (Accent sounded AM 04-11-2000 Sat 0345 (MS2))
 9205 E05 Counting station. 039 callup AM 28-11-2000 Tue 0300
 9205.0 E05 Rptg 300 count 80 419/04 //7620 AM 11-11-2000 Sat 0300
 9215 E05 Counting station. 431 AM 27-11-2000 Mon 2200 (LA)
 9219.0 E05 ID 940 ? Poor rx USB 06-11-2000 Mon 2200 (DR)
 9219.0 E05 Call 491 USB 20-11-2000 Mon 2200 (GG)
 9219.0 E05 rptg 491 Count 213 698/03 USB 20-11-2000 Mon 2200 (JM4)
 9238.5 M08a? Nothing by :11 (ditto 9153) CW 10-11-2000 Fri 0700 (GH)
 9251.0 E03 15489 USB 01-11-2000 Wed 2200 (GG)
 9251.0 E03 48438 USB 08-11-2000 Wed 2100 (GG)
 9251.0 E03 LP calling 15489 //7337 //12603 USB 08-11-2000 Wed 2200
 (GH)
 9251.0 E03 15489 USB 08-11-2000 Wed 2200 (GG)
 9251.0 E03 48438 USB 09-11-2000 Thu 2200 (GG)
 9251.0 E03 rptg 94803 USB 16-11-2000 Thu 2100 (JM4)
 9251.0 E03 44250 USB 17-11-2000 Fri 2100 (GG)
 9251.0 E03 57812 USB 25-11-2000 Sat 2100 (GG)
 9251.0 E03 57812 USB 26-11-2000 Sun 1900 (GG)
 9285 M23 579 (R10) CW 08-11-2000 Wed 1400 (AB)
 9285.0 M23 579 //8307 CW 11-11-2000 Sat 0800 (GH)
 9285.0 M23 579 //8307 CW 14-11-2000 Tue 0800 (GH)
 9323.0 V02a In prog. AM 02-11-2000 Thu 0403 (BM)
 9329.8 M08a MRARN WDWMD RUDIN (96162 53593 64372) CW 11-11-2000 Sat
 0500 (GH)
 9330.0 V02a ID=25992 01432 65193; very strong signal AM 06-11-2000
 Mon 0600 (BS2)
 9382.0 E10 YHF2 USB 01-11-2000 Wed 0130 (JM4)
 9382.0 E10 YHF USB 07-11-2000 Tue 0130 (JM4)
 9382.0 E10 //7918 YHF (37) DAFaz AM 10-11-2000 Fri 0130 (JM4)
 9382.0 E10 YHF2 USB 14-11-2000 Tue 0130 (GH)
 9382.0 E10 YHF2 USB 15-11-2000 Wed 0130 (GH)
 9382.0 E10 //7918 YHF2 AM 15-11-2000 Wed 0130 (JM4)
 9382.0 E10 //7918 YHF2 AM 16-11-2000 Thu 0130 (JM4)
 9382.0 E10 //7918 YHF2 AM 17-11-2000 Fri 0130 (JM4)
 9382.0 E10 //7918 YHF2 AM 27-11-2000 Mon 0130 (JM4)
 9726 Unid. E859957 1004146774 818 243 1023 CW 18-11-2000 Sat
 0604 (JM4)
 10046 M22 4XZ. Israeli Navy Tel Aviv. VVV marker CW 13-11-2000
 Mon 0010 (TR)
 10125 E10 Israeli Intel. MIW2 AM 28-11-2000 Tue 0115 (LA)
 10125 E10 Israeli Intel. MIW2 AM 28-11-2000 Tue 0215 (LA)
 10125.0 E10 //8025 MIW2 (both freqs new to this call) USB

14-11-2000 Tue 0215 (JM4)
 10125.0 E10 MIW2 USB 15-11-2000 Wed 0115 (JM4)
 10125.0 E10 //6370 MIW2 USB 16-11-2000 Thu 0115 (JM4)
 10125.0 E10 //6370 MIW2 AM 16-11-2000 Thu 0215 (JM4)
 10125.0 E10 //6370//8025 MIW2 AM 17-11-2000 Fri 0115 (JM4)
 10125.0 E10 MIW2 USB 18-11-2000 Sat 1615 (GG)
 10125.0 E10 //6370//8025 MIW2 AM 19-11-2000 Sun 0115 (JM4)
 10125.0 E10 MIW2 USB 19-11-2000 Sun 0415 (GG)
 10125.0 E10 //6370//8025 MIW2 USB 21-11-2000 Tue 0115 (JM4)
 10125.0 E10 //6370//8025 MIW2 AM 22-11-2000 Wed 0215 (JM4)
 10125.0 E10 MIW2 USB 25-11-2000 Sat 2015 (GG)
 10125.0 E10 MIW2 USB 25-11-2000 Sat 2100 (GG)
 10125.0 E10 MIW2 USB 26-11-2000 Sun 1515 (GG)
 10125.0 E10 MIW2 USB 26-11-2000 Sun 1615 (GG)
 10125.0 E10 MIW2 USB 26-11-2000 Sun 2315 (GG)
 10125.0 E10 //6370//8025 MIW2 AM 27-11-2000 Mon 0115 (JM4)
 10125.5 M08a MRARN WDWMD RUDIN (96162 53593 64372) CW 11-11-2000 Sat
 0400 (GH)
 10126.5 M08a DWIUA WTRMD UARND (35741 50693 41623) CW 11-11-2000 Sat
 0900 (GH)
 10127.0 M08a Msg already in progress, but not up on hour CW
 14-11-2000 Tue 0903 (GH)
 10133.0 E17 i/p down/w 264 264 88 88 00000 AM 07-11-2000 Tue 0200
 (JM4)
 10160.7 US Intel, Frankfurt. Usual 10 min transmission //
 8153.7 kHz 108.87bd FSK 01-11-2000 Wed 1600 (LDO)
 10160.7 US Intel, Frankfurt // 8153.7 kHz. 108.87bd FSK
 20-11-2000 Mon 1600 (AB)
 10235 M08 Cuban Intel. UDWNN CW 24-11-2000 Fri 0412 (MADX)
 10235.5 M08a TWGGN AMUDN RDGTD (05882 19432 63803) CW 14-11-2000 Tue
 0400 (GH)
 10248 M16 8BY. French Intel. .../973/063 CW 27-11-2000 Mon 1400
 10344.5 M08a GNDMU DNMTU WDWMA (82394 32904 53591) CW 09-11-2000 Thu
 0300 (GH)
 10352.0 E10 //6912//8127 VLB2 USB 15-11-2000 Wed 0145 (JM4)
 10352.0 E10 //8127 VLB2 USB 16-11-2000 Thu 0145 (JM4)
 10352.0 E10 //6912//8127 VLB2 USB 16-11-2000 Thu 0245 (JM4)
 10352.0 E10 //6912//8127 VLB2 AM 17-11-2000 Fri 0145 (JM4)
 10352.0 E10 VLB2 USB 18-11-2000 Sat 1745 (GG)
 10352.0 E10 //6912//8127 VLB2 AM 22-11-2000 Wed 0245 (JM4)
 10352.0 E10 VLB2 USB 25-11-2000 Sat 2045 (GG)
 10352.0 E10 VLB2 USB 26-11-2000 Sun 1645 (GG)
 10352.0 E10 VLB2 USB 26-11-2000 Sun 2345 (GG)
 10352.0 E10 //6912//8127 VLB2 AM 26-11-2000 Sun 2345 (JM4)
 10423 E03 Lincolnshire Poacher USB 11-11-2000 Sat 1506 (DN)
 10423.0 E05 Call 227 Count 177 747/79 ... USB 01-11-2000 Wed 2200
 10423.0 E05 //12197 ID 227 Count 177 747/79 206/08 299/79 USB
 05-11-2000 Sun 2200 (DR)

10423.0 E05 AM 05-11-2000 Sun 2200
 10423.0 E05 //12197 rptg 122 Count 75(?) weak AM 08-11-2000 Wed 2200 (JM4)
 10423.0 E05 Call 122 USB 08-11-2000 Wed 2200 (GG)
 10423.0 E05 //12197 rptg 122 Count 75 243/90 AM 22-11-2000 Wed 2200 (JM4)
 10426 E03 Lincolnshire Poacher. 65776 USB 27-11-2000 Mon 1403
 10426.0 E03 ID 80872 Good rx USB 06-11-2000 Mon 2200 (DR)
 10426.0 E03 80872 USB 06-11-2000 Mon 2200 (GG)
 10426.0 E03 LP calling 69_0_, weak //11545 USB 11-11-2000 Sat 2000
 10426.0 E03 10753 USB 20-11-2000 Mon 2200 (GG)
 10426.0 E03 22383 USB 25-11-2000 Sat 2000 (GG)
 10426.0 E03 //7755 weak USB 29-11-2000 Wed 1600 (JM4)
 10426.0 E03 //7755 weak USB 29-11-2000 Wed 1600 (JM4)
 10445.0 V02a ID=25992 01432 65193; very strong signal, occasional uneven numeral spacing AM 06-11-2000 Mon 0500 (BS2)
 10445.0 V02a A 2019? 64281 14181 Repeat of 0200 12165kHz ? AM 27-11-2000 Mon 0300
 10446.0 V02 AM 15-11-2000 Wed 0300 (WK)
 10446.0 V02a in progress AM 22-11-2000 Wed 0300 (JM4)
 10446.5 M08a UDU TD WTRMN UARNN (43403 50692 41622) CW 10-11-2000 Fri 0800 (GH)
 10583.0 E05 Call 875 Count 84 USB 25-11-2000 Sat 2100 (GG)
 10620 M53 N.Korean Intel. CQ747,130 CW 27-11-2000 Mon 1034 (IB)
 10648.0 E10 in progress USB 18-11-2000 Sat 1611 (GG)
 10648.0 E10 YHF 89 KNJXN USB 26-11-2000 Sun 1600 (GG)
 10665.0 V05 In prog. 789 grupo 101 AM 09-11-2000 Thu 0305 (BM)
 10665.0 V05 AM 16-11-2000 Thu 0300 (WK)
 10665.0 V05 //11491 rptg 789 Grupo 101 936/83 AM 16-11-2000 Thu 0300 (JM4)
 10714.5 M08a _____ NTWRN MNIWA (_____ 20562 92751) CW 14-11-2000 Tue 0206 (GH)
 10717 M42 FAPSI. Tfc on link 10064 Crowd36 01-11-2000 Wed 1559 (LDO)
 10870.0 E06 741-823/91 25896 AM 11-11-2000 Sat 1500 (JE)
 10880.0 E06 741-823/91 25896 AM 12-11-2000 Sun 1500 (JE)
 10880.0 E06 741-605/99 10471 AM 25-11-2000 Sat 1500 (JE)
 10953 M81 nr 1/2 gr 26 = = 8697 2245 3934... CW 03-11-2000 Fri
 10963 M81 nr 1/2 gr 26 = = 8697 2245 3934 9898 3937 2646 8330 2676 8630 2259 8866 3524 3570 9766 4924 9470 3876 0146 4774 8924 2226 3165 8790 1775 7693 0252 = = ar CW 03-11-2000 Fri 0243 (IB)
 10970.0 E10 Mossad YL/EE: In progress @ 0849z USB 29-11-2000 Wed 0845 (LAZ)
 11065.0 S06 275-908/165 10075 AM 25-11-2000 Sat 1700 (JE)
 11070.0 S06 275-306/197 56809 long message AM 11-11-2000 Sat 1700 (JE)
 11431.5 M08a In progress CW 14-11-2000 Tue 0530 (GH)

11432.5	M08a	_____ WTRMD _____ (_____ 50693 _____) CW 11-11-2000 Sat 0806 (GH)
11432.5	M08a	IDRAA IMRDD MGIGD (73611 79633 98783) CW 14-11-2000 Tue 0800 (GH)
11440.0	E06	325-791/44 20999 AM 24-11-2000 Fri 1730 (JE)
11491	V05	Counting Station. 5FGs SS USB 02-11-2000 Thu 0329 (RP3)
11491.0	E05	AM 16-11-2000 Thu 0300 (WK)
11491.0	V05	Rptg 789 grupo 101 936/03 //12300.5 AM 09-11-2000 Thu 0300 (GH)
11491.0	V05	//10665 rptg 789 Grupo 101 936/83 AM 16-11-2000 Thu 0300 (JM4)
11527.7		US Intel, Frankfurt. Usual 10 min transmission // 13989.7 kHz 108,87bd FSK 01-11-2000 Wed 1100 (LD0)
11527.7		US Intel, Frankfurt. 108,87bd FSK 20-11-2000 Mon 1100
11545.0	E03	80872 USB 06-11-2000 Mon 2200 (GG)
11545.0	E03	LP calling 69_0_, weak //10426 USB 11-11-2000 Sat 2000
11545.0	E03	weak USB 12-11-2000 Sun 1600 (JM4)
11545.0	E03	The poacher USB 15-11-2000 Wed 1500 (WK)
11545.0	E03	94803 USB 18-11-2000 Sat 1400 (GG)
11545.0	E03	72354 USB 18-11-2000 Sat 1600 (GG)
11545.0	E03	44250 USB 19-11-2000 Sun 1500 (GG)
11545.0	E03	weak USB 19-11-2000 Sun 1600 (JM4)
11545.0	E03	rptg 94806 USB 20-11-2000 Mon 1700 (JM4)
11545.0	E03	39221 USB 20-11-2000 Mon 2100 (GG)
11545.0	E03	10753 USB 20-11-2000 Mon 2200 (GG)
11545.0	E03	//13375//15682 rptg 22383 USB 21-11-2000 Tue 1600 (JM4)
11545.0	E03	//14487//16084 rptg 10753 USB 22-11-2000 Wed 1500 (JM4)
11545.0	E03	44250 USB 26-11-2000 Sun 1500 (GG)
11545.0	E03	L.P. very weak USB 26-11-2000 Sun 1600 (BM)
11545.0	E03	94803 USB 26-11-2000 Sun 1600 (GG)
11545.0	E03	58421 USB 26-11-2000 Sun 1700 (GG)
11545.0	E03	57812 USB 26-11-2000 Sun 1900 (GG)
11545.0	E03	39221 USB 26-11-2000 Sun 2000 (GG)
11565.0	E10	//9130 EZI2 AM 01-11-2000 Wed 0100 (JM4)
11565.0	E10	EZI USB 01-11-2000 Wed 0200 (JM4)
11565.0	E10	EZI 118 RQXHN USB 01-11-2000 Wed 2200 (GG)
11565.0	E10	//9130 EZI (51) FXTLY AM 03-11-2000 Fri 0200 (JM4)
11565.0	E10	//9130 EZI2 USB 07-11-2000 Tue 0100 (JM4)
11565.0	E10	//9130 EZI (51) FXTLY USB 07-11-2000 Tue 0200 (JM4)
11565.0	E10	//9130 EZI2 USB 08-11-2000 Wed 0100 (JM4)
11565.0	E10	//9130 EZI (51) FXTLY AM 08-11-2000 Wed 0200 (JM4)
11565.0	E10	EZI (BC in bkg) USB 08-11-2000 Wed 2130 (GG)
11565.0	E10	//9130 EZI2 AM 09-11-2000 Thu 0100 (JM4)
11565.0	E10	EZI group __ __FZE (?); weak+QRN USB 09-11-2000 Thu 0200 (GH)
11565.0	E10	EZI 58 CJOYQ USB 09-11-2000 Thu 2200 (GG)
11565.0	E10	EZI USB 10-11-2000 Fri 0200 (JM4)
11565.0	E10	USB 10-11-2000 Fri 0430 (WK)

11565.0 E10 //9130 EZI (81) AEFJE AM 12-11-2000 Sun 0200 (JM4)
11565.0 E10 EZI2 //9130 USB 14-11-2000 Tue 0100 (GH)
11565.0 E10 //9130 EZI AM 14-11-2000 Tue 0200 (JM4)
11565.0 E10 //9130 EZI (81) AEFJE USB 16-11-2000 Thu 0200 (JM4)
11565.0 E10 USB 16-11-2000 Thu 0400 (WK)
11565.0 E10 EZI (81) AEFJE USB 17-11-2000 Fri 0200 (JM4)
11565.0 E10 EZI2 USB 19-11-2000 Sun 0100 (JM4)
11565.0 E10 EZI weak USB 19-11-2000 Sun 0430 (GG)
11565.0 E10 EZI2 USB 19-11-2000 Sun 0500 (GG)
11565.0 E10 EZI 97 BWGRC USB 19-11-2000 Sun 0730 (GG)
11565.0 E10 //9130 EZI2 AM 21-11-2000 Tue 0100 (JM4)
11565.0 E10 //9130 EZI USB 22-11-2000 Wed 0200 (JM4)
11565.0 E10 EZI 52 UCYLQ USB 26-11-2000 Sun 1630 (GG)
11565.0 E10 //9130 EZI2 AM 27-11-2000 Mon 0100 (JM4)
11565.0 E10a EZI2 ; in prog. USB 27-11-2000 Mon 0101 (BM)
11634.0 XPH 648x3 1 05912 00251 AM 28-11-2000 Tue 0700 (VM)
11636 M14? 307 165 165 00000. Short zero's CW 07-11-2000 Tue 0051 (MADX)

12119.5 M08a ----- MNIWA (----- 92751); up between :14 and :23, brief loud V2a b1 CW 14-11-2000 Tue 0100 (GH)
12161 M42 FAPSI. In progress RTTY 29-11-2000 Wed 1235 (DW)
12180.0 V02a A 65642 99361 22561 AM 01-11-2000 Wed 0200 (JM4)
12180.0 V02a A 11402 99364 22564 AM 08-11-2000 Wed 0200 (JM4)
12180.0 V02a Atencion 51331 17943 22081 AM 15-11-2000 Wed 0200 (GH)
12180.0 V02a A 51331 15943 22081 mixing w/M8a AM 15-11-2000 Wed 0200 (JM4)
12180.0 V02a A 51334 83383 20191 AM 22-11-2000 Wed 0200 (JM4)
12197.0 E05 Call 227 Count 177 747/79 ... USB 01-11-2000 Wed 2200
12197.0 E05 in progress USB 05-11-2000 Sun 2232 (GG)
12197.0 E05 //10423 rptg 122 Count 75(?) weak AM 08-11-2000 Wed 2200 (JM4)
12197.0 E05 Call 122 USB 08-11-2000 Wed 2200 (GG)
12197.0 E05 //10423 rptg 122 Count 75 243/90 AM 22-11-2000 Wed 2200 (JM4)
12215 V02a rpt of 0100 bc w/even worse audio. Every time a number was read the audio went off, almost like CW. Loud buzz in background. //3292 barely audible. AM 28-11-2000 Tue 0200 (LA)
12215.0 V02a in progress AM 03-11-2000 Fri 0200 (JM4)
12215.0 V02a A 65302 41913 50093 AM 07-11-2000 Tue 0200 (JM4)
12215.0 V02a A 11403 80021 15941 AM 10-11-2000 Fri 0200 (JM4)
12215.0 V02a in progress AM 14-11-2000 Tue 0200 (JM4)
12215.0 V02a In prog, ----- 49561 AM 14-11-2000 Tue 0206 (GH)
12215.0 V02a A 51332 22082 83381 AM 17-11-2000 Fri 0200 (JM4)
12300.5 V05 Rptg 789 grupo 101 936/03 //11491 much weaker AM 09-11-2000 Thu 0300 (GH)
12300.5 V05 Rptg 523 grupo 54 249/76 //14421 AM 11-11-2000 Sat 0300 (GH)

12376.0 E10 VLB2 USB 18-11-2000 Sat 1745 (GG)
 12376.0 E10 VLB2 USB 19-11-2000 Sun 0745 (GG)
 12376.0 E10 VLB2 USB 19-11-2000 Sun 0845 (GG)
 12376.0 E10 VLB2 USB 19-11-2000 Sun 0945 (GG)
 12376.0 E10 VLB2 USB 26-11-2000 Sun 1645 (GG)
 12603.0 E03 69208 USB 01-11-2000 Wed 1700 (GG)
 12603.0 E03 15489 USB 01-11-2000 Wed 2200 (GG)
 12603.0 E03 LP calling 15489 //7337 //9251 USB 08-11-2000 Wed 2200 (GH)
 12603.0 E03 15489 USB 08-11-2000 Wed 2200 (GG)
 12603.0 E03 48438 USB 09-11-2000 Thu 2200 (GG)
 12603.0 E03 //13375 in progress USB 11-11-2000 Sat 1600 (JM4)
 12603.0 E03 Barely audible L.P. USB 12-11-2000 Sun 1800 (BM)
 12603.0 E03 //14487//16475 rptg 22383 USB 15-11-2000 Wed 1700 (JM4)
 12603.0 E03 //14487 rptg 10753 USB 16-11-2000 Thu 1600 (JM4)
 12603.0 E03 //14487//16475 in progress USB 16-11-2000 Thu 1800
 12603.0 E03 72354 USB 18-11-2000 Sat 1600 (GG)
 12603.0 E03 //13375 weak USB 18-11-2000 Sat 1700 (JM4)
 12603.0 E03 44250 USB 19-11-2000 Sun 1500 (GG)
 12603.0 E03 //14487//16475 rptg 22383 USB 22-11-2000 Wed 1700 (JM4)
 12603.0 E03 44250 USB 26-11-2000 Sun 1500 (GG)
 12603.0 E03 58421 USB 26-11-2000 Sun 1700 (GG)
 12603.0 E03 //14487//16475 rptg 22383 USB 30-11-2000 Thu 1800 (JM4)
 12615.0 V02a A 20193 64281 14181 AM 27-11-2000 Mon 0200 (BM)
 12877 728 Chinese station. 316 this is 728. No msg AM 07-11-2000 Tue 0130 (IB)
 13374 M08A in progress. MDRTA... CW 06-11-2000 Mon 0807 (IB)
 13375.0 E03 weak USB 07-11-2000 Tue 1600 (JM4)
 13375.0 E03 Lincolnshire Poacher, YL/EE calling ID #51877. USB 10-11-2000 Fri 1600 (MV)
 13375.0 E03 weak USB 10-11-2000 Fri 1600 (JM4)
 13375.0 E03 //12603 in progress USB 11-11-2000 Sat 1600 (JM4)
 13375.0 E03 weak USB 11-11-2000 Sat 1700 (JM4)
 13375.0 E03 LP calling 80872 //16084 USB 11-11-2000 Sat 1800 (GH)
 13375.0 E03 in progress USB 14-11-2000 Tue 1600 (JM4)
 13375.0 E03 72354 USB 18-11-2000 Sat 1600 (GG)
 13375.0 E03 //12603 weak USB 18-11-2000 Sat 1700 (JM4)
 13375.0 E03 44250 USB 19-11-2000 Sun 1500 (GG)
 13375.0 E03 in progress USB 19-11-2000 Sun 1530 (JM4)
 13375.0 E03 weak USB 20-11-2000 Mon 1600 (JM4)
 13375.0 E03 //11545//15682 rptg 22383 USB 21-11-2000 Tue 1600 (JM4)
 13375.0 E03 44250 USB 26-11-2000 Sun 1500 (GG)
 13375.0 E05 58421 USB 26-11-2000 Sun 1700 (GG)
 13434.0 XPH With tfc AM 10-11-2000 Fri 0720 (GH)
 13434.0 XPH 648x3 1 05912 00251 AM 28-11-2000 Tue 0720 (VM)
 13436 V02A Atencion. 5FGs AM 07-11-2000 Tue 0134 (MADX)
 13436 V02a 72931 55093 49563" callup, bad modulation-best on USB. USB 28-11-2000 Tue 0100 (LA)

13436.0 V02a A 65302 41913 50093 AM 07-11-2000 Tue 0100 (JM4)
13436.0 V02a Atencion 67303 55091 49561, fast uno AM 14-11-2000 Tue 0100 (GH)
13436.0 V02a A 55981 55092 49562 AM 21-11-2000 Tue 0100 (JM4)
13444.0 E05 Rptg 506 (??) count 11_ 92_/35; v. weak AM 11-11-2000 Sat 1800 (GH)
13450.0 E05 Call 822 Count 152 256/77 ... USB 26-11-2000 Sun 1700
13452 V02A Cuban Intel. AM 11-10-2000 Wed 0125 (IB)
13452 V05 Counting Station. 056 10-count AM 01-11-2000 Wed 0101 (MADX)
13452.0 V05 //15651 rptg 056 Grupo 181 358/32 AM 01-11-2000 Wed 0100 (JM4)
13452.0 V05 //15651 rptg 815 Grupo 101 683/78 AM 08-11-2000 Wed 0100 (JM4)
13452.0 V05 //15651 rptg 815 Grupo 101 683/78 AM 10-11-2000 Fri 0100 (JM4)
13452.0 V05 //15651 in progress AM 15-11-2000 Wed 0100 (JM4)
13452.0 V05 Rptg 815 grupo 101 (?) 87_/78 //15651 AM 15-11-2000 Wed 0100 (GH)
13452.0 V05 //15651 in progress AM 17-11-2000 Fri 0100 (JM4)
13470.0 E06 741-605/99 10471 AM 25-11-2000 Sat 1400 (JE)
13480 E06 English Man AM 12-11-2000 Sun 1444 (PILE)
13533.0 E10 EZI 64 TVNWG USB 01-11-2000 Wed 1700 (GG)
13533.0 E10 EZI 65 TNCYQ USB 08-11-2000 Wed 2100 (GG)
13533.0 E10 EZI group 36 R(U?)J(F?)N USB 09-11-2000 Thu 0530 (GH)
13533.0 E10 EZI v. weak USB 11-11-2000 Sat 0530 (GH)
13533.0 E10 EZI v. weak into 5LG USB 14-11-2000 Tue 0530 (GH)
13533.0 E10 EZI 34 PBEOR USB 19-11-2000 Sun 0900 (GG)
13533.0 E10 EZI USB 21-11-2000 Tue 1600 (JM4)
13533.0 E10 EZI 52 UCYLQ USB 26-11-2000 Sun 1630 (GG)
13555 E05 Counting Station AM 12-11-2000 Sun 1446 (PILE)
13555.0 E05 Call 137 Count 215 403/86 ... USB 19-11-2000 Sun 1400
13750.0 V13 Cherry ripe ?? USB 15-11-2000 Wed 1330 (WK)
13857 M42 FAPSI. msgs on link 00063 RTTY 27-11-2000 Mon 1653
14421.0 V05 Rptg 523 grupo 54 249/76 //12300.5 AM 11-11-2000 Sat 0300 (GH)
14448.0 E05 In prog; Very faint 3/2 numbers in english, presumed E5 USB 05-11-2000 Sun 1722 (BM)
14448.0 E05 in progress USB 19-11-2000 Sun 1700 (JM4)
14448.0 E05 Call 822 Count 152 256/77 ... USB 26-11-2000 Sun 1700
14487 E03 Lincolnshire Poacher. 58421 USB 20-11-2000 Mon 1200
14487.0 E03 69208 USB 01-11-2000 Wed 1700 (GG)
14487.0 E03 Lincolnshire Poacher, YL/EE calling ID #80872. USB 09-11-2000 Thu 1600 (MV)
14487.0 E03 The poacher USB 15-11-2000 Wed 1400 (WK)
14487.0 E03 The poacher USB 15-11-2000 Wed 1500 (WK)
14487.0 E03 The poacher USB 15-11-2000 Wed 1700 (WK)
14487.0 E03 //12603//16475 rptg 22383 USB 15-11-2000 Wed 1700 (JM4)

14487.0 E03 //12603 rptg 10753 USB 16-11-2000 Thu 1600 (JM4)
14487.0 E03 //12603//16475 in progress USB 16-11-2000 Thu 1800
14487.0 E03 94803 USB 18-11-2000 Sat 1400 (GG)
14487.0 E03 22383 USB 19-11-2000 Sun 1400 (GG)
14487.0 E03 //11545//16084 rptg 10753 USB 22-11-2000 Wed 1500 (JM4)
14487.0 E03 //12603//16475 rptg 22383 USB 22-11-2000 Wed 1700 (JM4)
14487.0 E03 //12603//16475 rptg 22383 USB 30-11-2000 Thu 1800 (JM4)
14585 M42 FAPSI. 5LGs + opchat RTTY 09-11-2000 Thu 0849 (PILE)
14817 M42 FAPSI. Mazielka calls + msgs CIS36 30-10-2000 Mon 1723 (RH2)
14820 M42 FAPSI. Tfc on link 60069 RTTY 05-11-2000 Sun 1600 (JD)
14834.0 XPH With tfc AM 10-11-2000 Fri 0740 (GH)
14834.0 XPH With tfc AM 14-11-2000 Tue 0740 (GH)
14834.0 XPH 648x3 1 05912 00251 AM 28-11-2000 Tue 0740 (VM)
14860 728 Chinese station. 316 this is 728. No msg AM 07-11-2000 Tue 0201 (IB)
14866.0 E10 MIW2 USB 19-11-2000 Sun 0915 (GG)
14931 M16 8BY. French Intel. 043/784 CW 27-11-2000 Mon 1645 (RGA)
15651.0 V05 //13452 rptg 056 Grupo 181 358/32 AM 01-11-2000 Wed 0100 (JM4)
15651.0 V05 //13452 rptg 815 Grupo 101 683/78 AM 08-11-2000 Wed 0100 (JM4)
15651.0 V05 //13452 rptg 815 Grupo 101 683/78 AM 10-11-2000 Fri 0100 (JM4)
15651.0 V05 Rptg 815 grupo 101 (?) 87_/78 //13452 AM 15-11-2000 Wed 0100 (GH)
15651.0 V05 //13452 in progress AM 15-11-2000 Wed 0100 (JM4)
15651.0 V05 //13452 in progress AM 17-11-2000 Fri 0100 (JM4)
15682.0 E03 22383 USB 19-11-2000 Sun 1400 (GG)
15682.0 E03 //11545//13375 rptg 22383 USB 21-11-2000 Tue 1600 (JM4)
15682.0 E13 The poacher USB 15-11-2000 Wed 1330 (WK)
15682.0 E13 The poacher USB 15-11-2000 Wed 1400 (WK)
16084.0 E03 LP calling 80872 //13375 USB 11-11-2000 Sat 1800 (GH)
16084.0 E03 The poacher USB 15-11-2000 Wed 1330 (WK)
16084.0 E03 The poacher USB 15-11-2000 Wed 1400 (WK)
16084.0 E03 The poacher USB 15-11-2000 Wed 1500 (WK)
16084.0 E03 22383 USB 19-11-2000 Sun 1400 (GG)
16084.0 E03 //11545//14487 rptg 10753 USB 22-11-2000 Wed 1500 (JM4)
16143 M42 FAPSI. 5FGs RTTY 14-11-2000 Tue 0840 (HPT)
16198.0 E05 rptg 872 Count 175 155/43 AM 29-11-2000 Wed 1600 (JM4)
16198.0 E05 rptg 872 Count 175 115/43 AM 29-11-2000 Wed 1600 (JM4)
16347 M42 FAPSI. 6 tone & tweeter call-ups but no traffic! CIS36 13-11-2000 Mon 1615 (RH2)
16475.0 E03 //12603//14487 rptg 22383 USB 15-11-2000 Wed 1700 (JM4)
16475.0 E03 //12603//14487 in progress USB 16-11-2000 Thu 1800
16475.0 E03 //12603//14487 rptg 22383 USB 22-11-2000 Wed 1700 (JM4)
16475.0 E03 //12603//14487 rptg 22383 USB 30-11-2000 Thu 1800 (JM4)
17170.0 E10 MIW2 USB 19-11-2000 Sun 0915 (GG)

17410.0 E10 EZI 34 PBEOR USB 19-11-2000 Sun 0900 (GG)
17410.0 E10 Mossad YL/EE: EZI 94 TLAJT USB 29-11-2000 Wed 0830 (LAZ)
17421 M42 FAPSI. Mazielka call CW 05-11-2000 Sun 1600
17457 M42 FAPSI. Tfc on link 50035 RTTY 05-11-2000 Sun 1600 (JD)
17463 M42 FAPSI. Tfc on link 10163 RTTY 05-11-2000 Sun 1600 (JD)
18864.0 E03a //21866 weak USB 20-11-2000 Mon 2300 (JM4)
18864.0 E03a //21866 rptg 10542 USB 21-11-2000 Tue 0000 (JM4)
18864.0 E03a "86706" weak //21866 USB 21-11-2000 Tue 1300 (PB)
18864.0 E03a //24644 rptg 16990 USB 21-11-2000 Tue 2200 (JM4)
18864.0 E03a //21866 in progress USB 21-11-2000 Tue 2300 (JM4)
18864.0 E03a //21866 rptg 71907 USB 22-11-2000 Wed 0000 (JM4)
18864.0 E03a weak //21866 not heard USB 22-11-2000 Wed 1100 (PB)
18864.0 E03a "90671" weak// 21866 not heard USB 22-11-2000 Wed 1200 (PB)
18864.0 E03a "79107" S3 //21866 not heard. Chirps across freq 1301/03Z USB 22-11-2000 Wed 1300 (PB)
18864.0 E03a //24644 rptg 10542 USB 22-11-2000 Wed 2200 (JM4)
18864.0 E03a //21866 rptg 79107 USB 22-11-2000 Wed 2300 (JM4)
18864.0 E03a "79107" tty QRM S3-4 //21866 not audible due to QRM USB 23-11-2000 Thu 1200 (PB)
18864.0 E03a "16990" Some data QRM S5 //21866 USB 23-11-2000 Thu 1300 (PB)
18864.0 E03a //24644 in progress USB 30-11-2000 Thu 2215 (JM4)
18864.0 E03a //21866 in progress USB 30-11-2000 Thu 2300 (JM4)
19715.0 E10 47 GNTUU USB 19-11-2000 Sun 1130 (GG)
19715.0 E10 24 ??C?? USB 19-11-2000 Sun 1400 (GG)
19715.0 E10 //21930 EZI (93) TRDWL AM 19-11-2000 Sun 1530 (JM4)
19715.0 E10 Mossad YL/EE: EZI 94 TLAJT USB 29-11-2000 Wed 0830 (LAZ)
19826.5 M24 348 R4 695 695 231 231 = = CW 11-11-2000 Sat 2110 (GH)
19826.5 M24 348 R4 695 695 231 231 = = CW 12-11-2000 Sun 2110 (GH)
19844 E04 Cherry Ripe // 21866 USB 06-11-2000 Mon 0100 (RT)
19884.0 E03a //21866 rptg 10542 USB 27-11-2000 Mon 0100 (JM4)
19965 M10 148 + 5FGs CW 13-10-2000 Fri 1029 (IB)
20342 E06 English Man. Test. Counting 1-10 AM 13-11-2000 Mon 0220 (IB)
20342 E06 English Man. 342 342 342 (rptd) 967 967 111 111 88166 42878 17441 95411 04531... AM 13-11-2000 Mon 0230
21866 E04 Cherry Ripe // 19844 USB 06-11-2000 Mon 0100 (RT)
21866.0 E03a weak USB 16-11-2000 Thu 0100 (JM4)
21866.0 E03a //18864 weak USB 20-11-2000 Mon 2300 (JM4)
21866.0 E03a //18864 rptg 10542 USB 21-11-2000 Tue 0000 (JM4)
21866.0 E03a rptg 79107 USB 21-11-2000 Tue 0100 (JM4)
21866.0 E03a very weak //18864 USB 21-11-2000 Tue 1300 (PB)
21866.0 E03a //18864 in progress USB 21-11-2000 Tue 2300 (JM4)
21866.0 E03a //18864 rptg 71907 USB 22-11-2000 Wed 0000 (JM4)
21866.0 E03a //18864 rptg 79107 USB 22-11-2000 Wed 2300 (JM4)

21866.0 E03a Very weak, het tone over sig Intro just copied. USB
 23-11-2000 Thu 1300 (PB)
 21866.0 E03a //19884 rptg 10542 USB 27-11-2000 Mon 0100 (JM4)
 21866.0 E03a //18864 in progress USB 30-11-2000 Thu 2300 (JM4)
 21866.0 E04 CR tune barely audible USB 13-11-2000 Mon 0000 (GH)
 21930.0 E10 //19715 EZI (93) TRDWL AM 19-11-2000 Sun 1530 (JM4)
 22305 728 Chinese station. 316 this is 728. No msg AM 07-11-2000
 Tue 0832 (IB)
 22863 M42 FAPSI. Tfc on link 00099 RTTY 02-11-2000 Thu 0920 (RH2)
 23461 E04 Cherry Ripe. 37168 USB 20-11-2000 Mon 1200 (AB)
 23740.0 E10 47 GNTUU USB 19-11-2000 Sun 1130 (GG)
 23740.0 E10 24 ??C?? USB 19-11-2000 Sun 1400 (GG)
 24644.0 E03a weak USB 15-11-2000 Wed 2200 (JM4)
 24644.0 E03a in progress USB 20-11-2000 Mon 2200 (JM4)
 24644.0 E03a //18864 rptg 16990 USB 21-11-2000 Tue 2200 (JM4)
 24644.0 E03a //18644 rptg 10542 USB 22-11-2000 Wed 2200 (JM4)
 24644.0 E03a //18864 in progress USB 30-11-2000 Thu 2215 (JM4)
 24644.0 E04 CR calling 7309(7?), weak USB 12-11-2000 Sun 2200 (GH)

::: LOGS CONTRIBUTORS

AB Ary Boender, Netherlands
 AF AF, Germany
 ANA Anonymous, N. Africa
 ANEUR Anonymous Europe
 BM Ben Mesander, CO, USA
 BS2 Billy S., OH, USA
 BS3 B. Sanfelder, TN, USA
 DN Dave, the Netherlands
 DR Darren, SE England
 DW Day Watson, UK
 EB Eddie Bellerby
 EOH Eric, OH, USA
 GG Gallus Galus, W.Europe
 GH Greg Hajek, ILL, USA
 HFD Hans-Friedrich Dumrese, Germany
 HP Harald Pakusch, Germany
 HPT Hans-Peter Tillmann, Germany
 IB Igor Buhtiyarov, Russia
 ISO Iso, Central Europe
 JD John Doe, UK
 JE Joerg Eberhardt, Germany
 JM4 John Maky, Arkansas, USA
 JMM JMM, France
 KA5DMZ KA5DMZ, TX, USA
 LA Liz Alera, MI, USA
 LAZ Lazarus, CA, USA
 LDO Leif, Germany

MADX Mid-Atlantic Dixer
MED Medic307, NE Missouri. USA
MS2 Mark Spence, FLA, USA
MV Mary Villano, CA, USA
PB Paul Beaumont, UK
PILE Pile, Finland
RGA Jim, UK
RH2 Robert Hall, S.Africa
RP3 Ron, MA, USA
RT Robert Thompson, TX, USA
TR Thomas Roth, Germany
VM Valeriano Martin, Spain
WK William Kibler, KS, USA

-o-o-o-o-o-o-o-o-o-o-

'Numbers & Oddities' a.k.a. 'Spooks Newsletter' comes to you courtesy of WUN, the Worldwide Utility News club. This newsletter may NOT be utilized, partly or wholly, in any other media format without the written permission of the editor (ary@luna.nl). Any breach of this may result in action under international copyright legislation.

To become a WUN member, send e-mail to the WUN listserver at: majordomo@qth.net and in the BODY of the message type: "subscribe wun" (without the quotation marks).

Check out the WUN web site at: <http://www.wunclub.com>

-o-o-o-o-o-conet-o-o-o-o-